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GROUP (NAVY) ORLANDO FL G W HODAK ET AL. MAR 79

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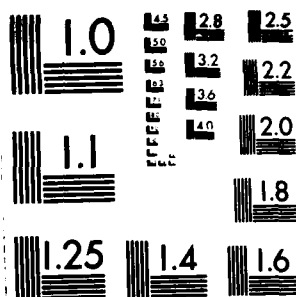
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TAE G REPORT
NO. 69

PERSONNEL ATTRITION FROM
NAVY ENLISTED INITIAL TECHNICAL TRAINING

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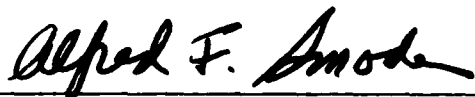
Gary W. Hodak
Morris G. Middleton
William C. Rankin
Clarence J. Papetti

Training Analysis and Evaluation Group

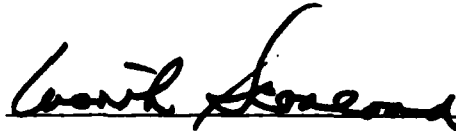
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ALFRED F. SMODE, Ph.D., Director
Training Analysis and Evaluation Group



WORTH SCANLAND, Ph.D.
Assistant Chief of Staff for
Research and Program Development
Chief of Naval Education and Training

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. determine the aggregate and course specific costs of academic and nonacademic attrition.

Extensive data are provided. Major variables studied include academic attrition, nonacademic attrition, qualified vs. unqualified personnel inputs, and cost per graduate. Comparisons are drawn from FY 76 and FY 77 data bases.

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SECTION I

INTRODUCTION

"Attrition represents a reduction of the effectiveness of a force caused by loss of personnel and material. Attrition rate is normally expressed as a percentage, reflecting the degree of losses of personnel or nonconsumable supplies due to various causes within a specified period of time."¹ Personnel who attrite from Navy class "A" schools are a major concern of the Naval Education and Training Command (NAVEDTRACOM) since a major portion of the Chief of Naval Education and Training's (CNET) resources (billets and dollars) are devoted to this type of training.

A previous Training Analysis and Evaluation Group (TAEG) study² (hereafter referred to as TAEG Report 47), examined the extent and the cost of attrition from initial enlistment technical training courses (specifically, A1 and A3 courses). The planning for the study took into consideration the fact that attrition from technical training had not received adequate attention. Consequently, a perspective on attrition attributable to technical training variables (academic and nonacademic) was desirable. A summary of the significant findings of TAEG Report 47 is presented below. In addition, detailed comparisons are made between these findings and those of the present study in subsequent sections of the report.

- . Total attrition in 147 A1 and A3 courses was 7.4 percent (6,446) of total enrollment (86,660) during FY 76, equally distributed between academic and nonacademic types.
- . Ten courses had academic attrition equal to or greater than 10 percent of annual enrollment. Only three courses had nonacademic attrition equal to or greater than 10 percent.
- . Total cost for 118 courses analyzed in the study for FY 76 was \$254,308,000. Of this total the costs of academic and nonacademic attrition were \$8,800,000 and \$,400,000 respectively.
- . A relatively small number of courses account for a "majority" of attrition costs. (Fifteen courses accounted for 72 percent of the total academic attrition cost.)
- . Fourteen percent of the inputs to the 147 A1 and A3 courses were waived; i.e., did not meet minimum Armed Services Vocational Aptitude Battery (ASVAB) course entrance requirements. Waived trainees produced significantly greater academic attrition than qualified trainees.

¹ Dictionary of the United States Military Terms for Joint Usage. Joint Chiefs of Staff, Publication 1. 1 February 1964. Washington, D.C. 20301.

² Middleton, M., Rankin, W., Green, E. and Papetti, C. Academic Attrition from Navy Technical Training Class "A" School Courses. TAEG Report 47. July 1977. Training Analysis and Evaluation Group, Orlando, FL 32813. AD A044029.

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- . Setbacks; i.e., trainees who repeat some portion of a course, represent a potentially greater area of uncertainty than course attrition. Setbacks represent 16 percent of enrollment. Their cost and attrition implications are for the most part unknown.

PURPOSE

The purpose of the present study is to refine and employ the techniques developed by TAEG and to extend the attrition data base for A1 and A3 courses to include FY 77 data. Expanding the data base to include FY 77 permits a comparison of the attrition problem over time; i.e., trends can be examined over successive fiscal years. The long-term goals of TAEG's attrition study program remain:

- . identify those factors associated with academic attrition
- . determine the overall and course-specific costs of academic attrition
- . identify the extent and pattern of attrition in class A1 and A3 courses
- . suggest corrective courses of action for monitoring, controlling, or reducing academic attrition.

APPROACH

The approach taken in this study is similar to that reported in TAEG Report 47 in that data sources for a specified time period containing information on training personnel and costs were exhaustively analyzed. The major variables investigated were the numbers of personnel trained in A1 and A3 courses, their associated costs, numbers of attrites and setbacks, and academic aptitude. The emphasis focused on Navy enlisted class A courses since 70 to 80 percent of the graduates of recruit training are input to these courses, and the bulk of the Navy man-hours of first enlistment training occurs in this setting. Both academic and nonacademic attrition were examined; however, it was hypothesized that academic attrition would have the greater potential for affecting change through training management options.

ORGANIZATION OF THE REPORT

In addition to this Introduction, three major sections are provided. Section II presents the rationale for and the data sources used in the analyses and describes the analyses performed. Section III presents the results of the analyses in graphic and tabular form which include relevant FY 76 and FY 77 data comparisons. Section IV summarizes the major findings of the study with appropriate recommendations.

In addition, four appendices are included. Appendix A, compiles the attrition and cost data used in the various analyses. Appendix B provides information on qualified and unqualified personnel. Appendix C compares all courses common to both FY 76 and FY 77 on selected variables. A continuation of the comparisons in appendix C, restricted to cost data, is shown in appendix D.

SECTION II

APPROACH

This section describes the sources of data, the data elements employed and the analyses performed. The analyses do not exhaust the analytical options that might have been used; however, those included were deemed most pertinent, relevant and meaningful, given the available data. These analyses are identical to those described in TAEK Report 47. They are described here again for the sake of completeness and continuity. A unique aspect of this report is the comparison of the FY 76 and FY 77 data bases in each analysis.

PRELIMINARY DESCRIPTIVE ANALYSIS

The initial effort of this study was to examine the magnitude and variability of attrition among A1 and A3 courses. The rationale was to let actual attrition data suggest problem areas as well as hypotheses about possible correlates of attrition. This purely descriptive analysis of attrition also served as a baseline for subsequent analyses.

DATA SOURCE: NAVY INTEGRATED TRAINING RESOURCES AND ADMINISTRATIVE SYSTEM (NITRAS)

The NITRAS is an automated training information system designed to provide direct support information for the CNET, Chief of Naval Personnel and the Navy Recruiting Command. The NITRAS consists of four files, two of which were utilized in this study and are described below:

Master Course Reference File (MCRF). The MCRF collects and standardizes at one central point all formal training course data elements, schedules, and input/requirements plans. It is a compilation of student planned enrollment on the course/class level. It interfaces with various automated systems to provide Navy training reports.

Training Summary File (TSF). The TSF is a repository for training summary statistics for all training courses. It provides the capability to monitor average trainees on board, course achievement, numbers of trainees under instruction, attrition, and other variations of statistical data.

The data utilized in this preliminary descriptive analysis were acquired from the CNET TSF Reports 1500-1207 and 1500-1208 which are extracts from the TSF containing all FY 77 data on attrition. The data elements used from this report are listed below. Equations 1, 3, 5 and 7 were derived for utilization in the analysis of data and are based on the formulas identified here as formulas 2, 4, 6 and 8, respectively. These latter formulas are taken from the NITRAS Reports Manual, and applied to CNET Report 1500-1207.

- . Input - Actual number of students enrolling during the current fiscal year
- . Grads - Actual number of students graduating during the current fiscal year

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- Standard attrition (percent). This value is the CNTECHTRA approved maximum acceptable rate of attrition for a particular course.

- Attrition total (number)

$$TA = \frac{\text{Percent attrition total (enrollments + graduates)}}{2 - \text{percent attrition total}} \quad (1)$$

- Attrition total (percent)

$$\text{Percent TA} = \frac{\text{Total attrition}}{\frac{\text{Total attrition} + \text{enrollments} + \text{graduates}}{2}} \quad (2)$$

- Academic attrition (number)

$$AA = \frac{\text{Percent academic attrition (enrollment + graduates)}}{2 - \text{percentage academic attrition}} \quad (3)$$

- Academic attrition (percent)

$$\text{Percent AA} = \frac{\text{Academic Attrition}}{\frac{\text{Academic attrition} + \text{enrollment} + \text{graduates}}{2}} \quad (4)$$

- Nonacademic attrition (number)

$$NAA = \frac{\text{Percent nonacademic attrition (enrollment + graduates)}}{2 - \text{percentage nonacademic attrition}} \quad (5)$$

- Nonacademic attrition (percentage)

$$\text{Percent NAA} = \frac{\text{Nonacademic attrition}}{\frac{\text{Nonacademic attrition} + \text{enrollments} + \text{graduates}}{2}} \quad (6)$$

- Setback (number)

$$SB = \frac{\text{Percent total setback (enrollments + graduates)}}{2 - \text{percent total setback}} \quad (7)$$

- Setback (percentage)

$$\text{Percent SB} = \frac{\text{Total setbacks}}{\frac{\text{Total setbacks} + \text{enrollments} + \text{graduates}}{2}} \quad (8)$$

It was determined from TSF Report 1500-1208 that there were data for 156 A1 and A3 courses. Using equations 1 through 8, basic descriptive statistical summaries were calculated and inspected. Relatively few courses were found to have academic attrition greater than 10 percent. Therefore, it was decided to depict class intervals of 0 through 10 percent in 1 percent increments and to group an open interval for courses greater than 10 percent.

CORRELATION ANALYSIS

Several hypotheses concerning possible relationships between course variables and attrition were identified from the original analysis, and correlation analyses were performed to test these hypotheses. Data on selected variables were obtained from TSF Report 1500-1208. In addition, the minimum aptitude requirements for entering a course were obtained from the MCRF. This variable was expressed in terms of the minimum ASVAB scores required to qualify an individual for specific "A" courses. The variables that were deemed appropriate for examination included:

- . course length (days)
- . number of course convenings
- . minimum ASVAB
- . student input
- . student graduates
- . standard attrition percentage
- . percentage setback
- . total attrition
- . nonacademic attrition
- . academic attrition

WAIVER ANALYSIS

The availability or qualifications of incoming personnel often do not match the manpower requirements of the Navy. Thus, in spite of minimum (ASVAB) requirements for entry into most "A" courses, some personnel who do not meet minimum aptitude requirements are still admitted to these courses as waived students. Chi-square analyses were run for each course to test the hypothesis that the proportion of unqualified attrites was not significantly greater than the proportion of qualified attrites.

DATA SOURCES: CNET REPORT 1500-1120, CNTECHTRA MONTHLY AND CUMULATIVE STUDENT ATTRITION REPORT AND CNET REPORT 1500-1121, CNTECHTRA MONTHLY CUMULATIVE STUDENT QUALITY REPORT

These reports are extracted from the same NITRAS data base as the Training Summary File reports. Report 1500-1120 contains monthly and cumulative data on student attrition reported by Course Data Processing (CDP) Code and Unit Identification Code (UIC) by academic and nonacademic categories, mental group, USN/USNR, and other variables. Report 1500-1121 contains monthly and cumulative data on student accessions. This latter report summarizes trainee accessions by mental groups and the number of qualified and nonqualified persons entering courses based upon minimum ASVAB scores.

ATTRITION COST ANALYSIS

A prescribed remedy for any attrition problem regardless of its magnitude must be tempered by cost. High attrition percentages do not necessarily mean high attrition cost; low percentage attrition courses may still reflect a very high cost due to large throughput and/or a high cost of training. The purpose

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TABLE 5. COURSES IN WHICH UNQUALIFIED STUDENTS (WAIVERS) ATTRITED AT SIGNIFICANTLY HIGHER RATES THAN QUALIFIED STUDENTS

| CDP | SHORT TITLES | CIN | CHI-SQUARE |
|-------|------------------|------------|------------|
| 6001* | QM-A | A-061-0012 | 39.59 |
| 6002* | QM-A | A-061-0012 | 6.93 |
| 6005* | SM-A | A-061-0011 | 5.55 |
| 6006* | SM-A | A-061-0011 | 3.86 |
| 6015* | SURF-ST CLASS A | A-130-0037 | 16.99 |
| 6025 | GMT-A | A-644-0014 | 13.32 |
| 6027 | FTA-A | A-113-0010 | 6.92 |
| 6053* | CTO-A | A-580-0016 | 11.27 |
| 6059 | SK CLASS A | A-551-0014 | 23.29 |
| 6068 | MR/A | A-702-0019 | 15.27 |
| 6102 | PN-A | A-500-0014 | 4.35 |
| 6120* | HT-A1 | A-780-0035 | 6.17 |
| 6125 | MS-A | A-800-0013 | 19.75 |
| 6131 | DS-A | A-150-0025 | 4.12 |
| 6137 | ET-A-3N | A-102-0010 | 8.74 |
| 6142* | OSA | A-221-0011 | 88.40 |
| 6144* | RMA | A-202-0014 | 51.27 |
| 6172 | STS-CLASS-A | A-130-0029 | 3.94 |
| 6206 | SH-A | A-823-0012 | 11.96 |
| 6240 | AVA-AQ-A1 | C-100-2013 | 4.67 |
| 6241 | AVA-AX-A1 | C-100-2013 | 14.44 |
| 6242* | AVA-TD-A1 | C-100-2013 | 7.84 |
| 6244* | AFTA-AT-A1 | C-100-2010 | 6.72 |
| 6260 | BT-A | A-651-0010 | 17.09 |
| 6262 | MMA | A-651-0015 | 6.32 |
| 6264 | ET-A1-CTM | A-100-0012 | 6.53 |
| 6265 | ET-A1-ETR | A-100-0012 | 24.48 |
| 6278* | AC-A1 | C-222-2010 | 14.20 |
| 6301* | CTR-A | A-231-0044 | 9.40 |
| 6302* | CTT-A-PREP | A-231-0023 | 6.06 |
| 6320 | CTT-SPE-NONMORSE | A-231-0046 | 8.51 |
| 6377 | FTG-A1 | A-113-0010 | 9.02 |
| 6380 | RM-A-SEA | A-202-0026 | 3.88 |
| 6501* | ADJ-A1 | C-601-2010 | 5.08 |
| 6513 | ABE-A1 | C-680-2012 | 7.06 |

TABLE 4. CORRELATIONS WITH ATTRITION (FY 76 VS. FY 77)

| | CONVEN (1) | MIN ASVAB (2) | INPUT (3) | GRADS (4) | STD ATTR % (5) | SETBACKS (6) | TOT ATTRIT (7) | NONACAD ATTRIT (8) | ACAD ATTRIT (9) |
|--------------------------|----------------|---------------------|------------------|------------------|----------------------|------------------|----------------------|--------------------------|-----------------------|
| COURSE LENGTH (1) | .041 (.086) | .176 (.100) | -.127 (-.098) | -.117 (-.059) | .332 (.149) | .273 (.305) | .058 (.199) | .001 (.063) | .123 (.293) |
| NO. OF CONVEN. (2) | | .211 (.181) | .437 (.216) | .445 (.193) | .105 (.082) | .062 (-.028) | .343 (.198) | .204 (.200) | .411 (.147) |
| MIN ASVAB (3) | | | .006 (-.001) | .022 (-.005) | -.110 (-.336) | -.044 (-.075) | .001 (.018) | .007 (.007) | -.022 (.039) |
| NO. INPUT (4) | | | | .993 (.984) | .177 (.188) | .357 (.573) | .811 (.749) | .756 (.832) | .537 (.507) |
| NO. GRADS (5) | | | | | .152 (.152) | .333 (.530) | .763 (.683) | .715 (.786) | .499 (.433) |
| ATTR STD % (6) | | | | | | .339 (.374) | .386 (.300) | .216 (.228) | .486 (.302) |
| SETBACKS (7) | | | | | | | .379 (.396) | .184 (.477) | .508 (.213) |
| TOT ATTRIT NUMBER (8) | | | | | | | | .901 (.911) | .726 (.899) |
| NONACAD ATTRIT (9) | | | | | | | | | .361 (.643) |

FY 76 correlations in parentheses ()

OUTPUT

| | | Nonacademic Attrition & Grads | Academic Attrition | Total |
|-------|--------------|-------------------------------------|-----------------------|--------|
| Input | Qualified | 53,816 | 1,920 | 55,736 |
| | Nonqualified | 10,090 | 827 | 10,917 |
| | Total | 63,906 | 2,747 | 66,653 |

The chi-square value for this analysis was 393.11, again indicating that waived students attrite at a higher rate. Column 14 of appendix B gives the chi-square for all courses for which waiver data were available.

COST ANALYSIS

The attrition costs cited in this section are average costs. It is recognized that these costs are useful primarily for assessing the relative magnitude of the cost of attrition for long range planning, but are of little value to managers and decision makers who must make the short range operational decisions. Marginal costs are always the appropriate costs for short range decision making. However, the development of marginal costs requires the identification of alternative strategies for reducing attrition in the short term. Such strategies were not addressed in this study. Regardless of the specific attrition-reducing strategies employed, the only estimate of marginal cost savings which is independent of any specific policy for affecting attrition is, and therefore appropriate to this study, student salaries. In this study marginal costs are computed by multiplying attrition weeks by the student salary costs. These estimates are presented in appendix A.

It was not the intent of this study to account for all course and attrition costs but rather to use all readily available data to show the relative impact of attrition on training resource utilization. The data for the preceding analyses were based on 156 A1 and A3 courses. However, from the courses listed in this data base, course cost for only 124 courses was available. The total cost for the 124 courses during FY 77 was \$231,888,000 which includes all direct and indirect costs associated with the courses. Utilizing equation 1 of section II, page 8, the total cost of attrition (both academic and nonacademic) was found to be \$13,164,000 for FY 77. Thus, 5.67 percent of the resources applied to these 124 courses was expended on personnel who attrited. Table 6 presents a summary comparison of the overall costs for FY 76 and FY 77.

Tables 7 and 8 present frequency distributions for (1) total annual cost per course and (2) the annual cost of attrition per course, both with cumulative numbers and cumulative percents. Additionally, in these tables, as well as in all the tables that follow, a comparison between FY 76 and FY 77 data is presented. The significant features of table 7 are as follows:

- The number of courses with an annual cost of less than \$1 million remained relatively stable.

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- . Twenty-five courses have attrition equal to or greater than 15 percent.
- . Attrition decreased in seven courses.
- . PM-A school had the greatest increase in attrition (from 9 to 21 percent).

CORRELATION ANALYSIS

The results of the above analysis give an indication of the scope of the problem of academic and nonacademic attrition and the trends from FY 76 to FY 77. To ascertain the interrelationships of the variables that could have some bearing on attrition, data on nine variables for the A1 and A3 courses were intercorrelated. Table 4 presents the results of this analysis in matrix format. Correlation data for FY 76 are also included, in parentheses, for comparison purposes. Column 9 of table 4 shows the correlations between academic attrition and nine other course variables. Most of the relationships are fairly straightforward when sheer numbers of students put through courses annually are considered.

Overall, the table indicates that FY 77 results parallel the FY 76 results. As indicated in TAEG Report 47, understanding the relationship between setbacks and academic attrition requires much more data than were available for this study.

WAIVER ANALYSIS

Individual course data on waivers and academic attrition were analyzed by chi-square tests on the hypothesis that the proportion of qualified attrites was not significantly different than the proportion of unqualified attrites who succumbed to academic attrition. A significant chi-square, at the $p \leq .05$ level of statistical confidence, was any computed value of the chi-square statistic for a course that equalled or exceeded 3.841. This indicated that unqualified trainees in these courses had a significantly higher rate of ASVAB academic attrition than ASVAB qualified trainees. Course data extracted from CNET Reports 1500-1120 and 1500-1121 were utilized for this analysis. Table 5 contains a listing of courses with significant chi-squares. It should be noted that 17 of the 33 courses that had significant chi-squares in FY 76 reappear on the FY 77 list. Course data from 1500-1120 and -1121 for the FY 76 study were not fully matured (less than 12 months for a number of courses). Therefore, comparison with FY 77 data (full year) would be misleading. Appendix B contains the available waiver data for FY 77.

In the overall analysis of all courses in appendix B, the following relationship between qualification and attrition was observed.

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TABLE 3. COURSES HAVING TOTAL ATTRITION (ACADEMIC AND NONACADEMIC)
EQUAL TO OR GREATER THAN 10 PERCENT (continued)

| CDP | SHORT TITLE | CIN | LOCATION | PERCENT ATTRITION | |
|-------|------------------|------------|------------------|-------------------|------|
| | | | | FY76 | FY77 |
| 6146* | PLRS-POS-ELECT-A | A-121-0142 | Dam Neck | 14 | 17 |
| 6264* | ET-A1-CTM | A-100-0012 | Great Lakes | 12 | 17 |
| 6006* | SM-A | A-061-0011 | San Diego | 12 | 18 |
| 6206 | SH-A | A-823-0012 | Norfolk | 8 | 18 |
| 6302* | CTT-A-PREP | A-231-0023 | Corry | 12 | 18 |
| 6047* | QM-A | A-670-0018 | Great Lakes | 16 | 19 |
| 6260 | BT A | A-651-0010 | Great Lakes | 7 | 19 |
| 6278* | AC-A1 | C-222-2010 | Memphis | 16 | 20 |
| 130E | NUC PWR | A-661-0010 | Orlando | - | 21 |
| 6076 | PM-A | A-790-0012 | San Diego | 9 | 21 |
| 6126* | QRTR-MSTR-BASE | A-772-0010 | New London | 12 | 22 |
| 6451 | EW CM TECH | A-102-0214 | Corry | - | 23 |
| 6452 | RES EM CM TECH | A-102-0214 | Corry | - | 23 |
| 6301* | CTR-A | A-231-0044 | Corry | 21 | 24 |
| 6299* | EW-OP-TECH | A-102-0155 | Corry | 43 | 27 |
| 6178* | EW-OP-MAINT/TECH | A-102-0154 | Corry | 17 | 28 |
| 6418 | DIVER SECOND | A-433-0022 | Washington, D.C. | - | 46 |

CDP - Course Data Processing Code

CIN - Course Identifying Number

* Course had total attrition equal to or greater than 10 percent in FY 76.

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TABLE 3. COURSES HAVING TOTAL ATTRITION (ACADEMIC AND NONACADEMIC)
EQUAL TO OR GREATER THAN 10 PERCENT

| CDP | SHORT TITLE | CIN | LOCATION | PERCENT ATTRITION | |
|-------|------------------|------------|------------------|-------------------|------|
| | | | | FY76 | FY77 |
| 6005 | SM-A | A-061-0011 | Orlando | 5 | 10 |
| 6036 | TM-OP-A/S-TORP | A-123-0127 | Orlando | 1 | 10 |
| 6102* | PN-A | A-500-0014 | Meridian | 13 | 10 |
| 6172 | STS CLASS A | A-130-0029 | San Diego | 5 | 10 |
| 6245 | AFTA-AQ-A1 | C-100-2010 | Memphis | 9 | 10 |
| 6053 | CTO-A | A-580-0016 | Corry | 9 | 11 |
| 6068 | MR/A | A-702-0019 | San Diego | 8 | 11 |
| 5309 | SCAT-MOD-1 | A-100-0035 | New London | 9 | 12 |
| 6041* | MN/A | A-647-0016 | Charleston | 23 | 12 |
| 6057* | YN-A | A-510-0012 | Meridian | 17 | 12 |
| 6065* | MUSIC BASIC | A-450-0010 | Little Creek | 15 | 12 |
| 6131* | DS-A | A-150-0025 | Mare Island | 10 | 12 |
| 6144* | RMA | A-202-0014 | San Diego | 17 | 12 |
| 6265* | ET-A1-ETR | A-100-0012 | Great Lakes | 10 | 12 |
| 6419 | SCUBA DIVER | A-433-0023 | Washington, D.C. | - | 12 |
| 6002 | QMA | A-061-0012 | San Diego | 4 | 13 |
| 6027* | FTA-A | A-113-0010 | Great Lakes | 12 | 13 |
| 6093 | TM SUB/TORP TECH | A-123-0127 | Orlando | 1 | 13 |
| 6263 | ET-A1-ETN | A-100-0012 | Great Lakes | 9 | 13 |
| 6457 | ET (SU) EW TECH | A-102-0224 | Corry | - | 13 |
| 6478 | CTM EW TECH | A-102-0234 | Corry | - | 13 |
| 6025 | GMT-A | A-644-0014 | TRAGRUPAC | 9 | 14 |
| 6078 | EA-A | A-412-0010 | PT HUE | 2 | 14 |
| 6239* | AVA-AT-A1 | C-100-2013 | Memphis | 11 | 14 |
| 6241* | AVA-AX-A1 | C-100-2013 | Memphis | 15 | 14 |
| 6529 | ISA | A-242-0010 | Lowry | 6 | 14 |
| 6536 | TM-AS-TORP-TECH | A-123-0127 | Orlando | 0 | 14 |
| 6001 | QMA | A-061-0012 | Orlando | 2 | 15 |
| 6020 | CTA-A | A-510-0015 | Corry | 7 | 15 |
| 6240* | AVA-AQ-A1 | C-100-2013 | Memphis | 12 | 15 |
| 6377 | FTG-A1 | A-113-0010 | Great Lakes | - | 15 |
| 6476 | EW FUND/PM TECH | A-102-0209 | Corry | - | 15 |
| 6537* | AW-A1 | C-210-2010 | Memphis | 12 | 15 |
| 6341 | OT A | A-210-0011 | FLEASWTRACENPAC | - | 16 |
| 6142 | OSA | A-221-0011 | Great Lakes | 8 | 17 |

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- Input to these courses was 8.4 percent (7,303) in FY 76 and 13.7 percent (12,064) in FY 77 of the annual enrollment.

Courses having nonacademic attrition equal to or greater than 10 percent are listed in table 2. Comparison to FY 76 data reveals:

- The number of courses increased from three in FY 76 to ten in FY 77 (a 233 percent increase).
- Two of the three courses contained in the FY 76 list reappear on the FY 77 list.
- In FY 77 four of the ten courses listed also had academic attrition greater than 10 percent.

TABLE 2. COURSES HAVING NONACADEMIC ATTRITION EQUAL TO OR GREATER THAN 10 PERCENT

| CDP | SHORT TITLE | CIN | LOCATION | PERCENT ATTRITION | |
|-------|--------------------|------------|------------------|-------------------|------|
| | | | | FY76 | FY77 |
| 6126 | QTR-MSTR-BASE** | A-772-0010 | New London | 9 | 10 |
| 6142 | OSA | A-221-0011 | Great Lakes | 5 | 10 |
| 6299* | EW-OP-TECH** | A-102-0155 | Corry | 39 | 10 |
| 6047* | QM-A | A-670-0018 | Great Lakes | 11 | 11 |
| 6419 | SCUBA DIVER | A-433-0023 | Washington, D.C. | - | 12 |
| 6478 | CTM EW TECH | A-102-0234 | Corry | - | 13 |
| 6078 | EA-A | A-412-0010 | PT HUE | 2 | 14 |
| 6178 | EW-OP-MAINT/TECH** | A-102-0154 | Corry | 3 | 17 |
| 6260 | BTA | A-651-0010 | Great Lakes | 7 | 19 |
| 6418 | DIVER SECOND** | A-433-0022 | Washington, D.C. | - | 37 |

CDP - Course Data Processing Code

CIN - Course Identifying Number

* Course had nonacademic attrition equal to or greater than 10 percent in FY 76.

** Course also had academic attrition equal to or greater than 10 percent.

Table 3 contains those courses which have a total (academic plus nonacademic) attrition level greater than or equal to 10 percent. Comparing FY 77 to the FY 76 data reveals the following:

- The number of courses increased from 31 in FY 76 to 52 in FY 77 (68 percent).
- Twenty-two of the original thirty-one courses (FY 76) reappear on the FY 77 list.

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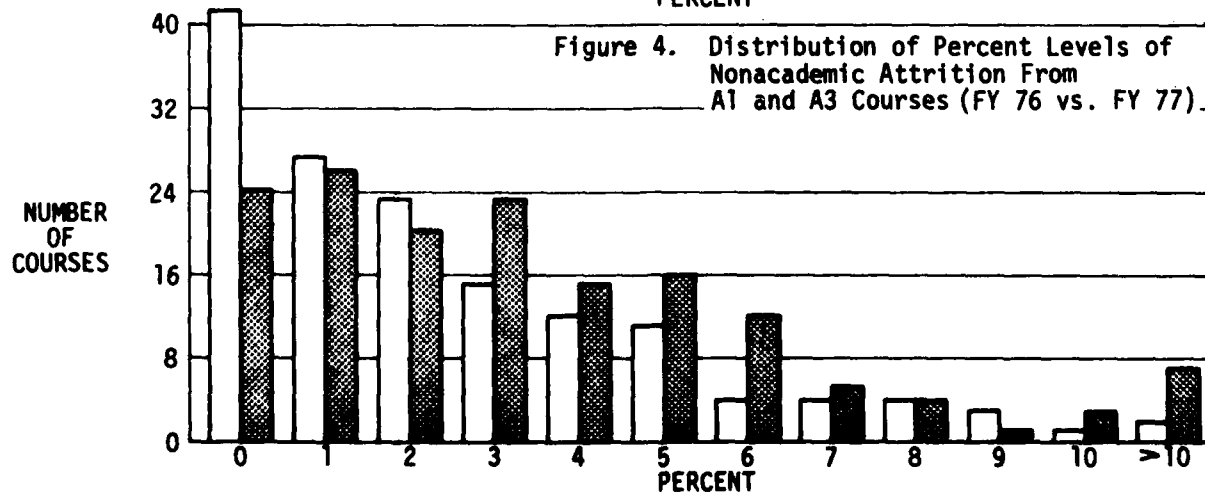
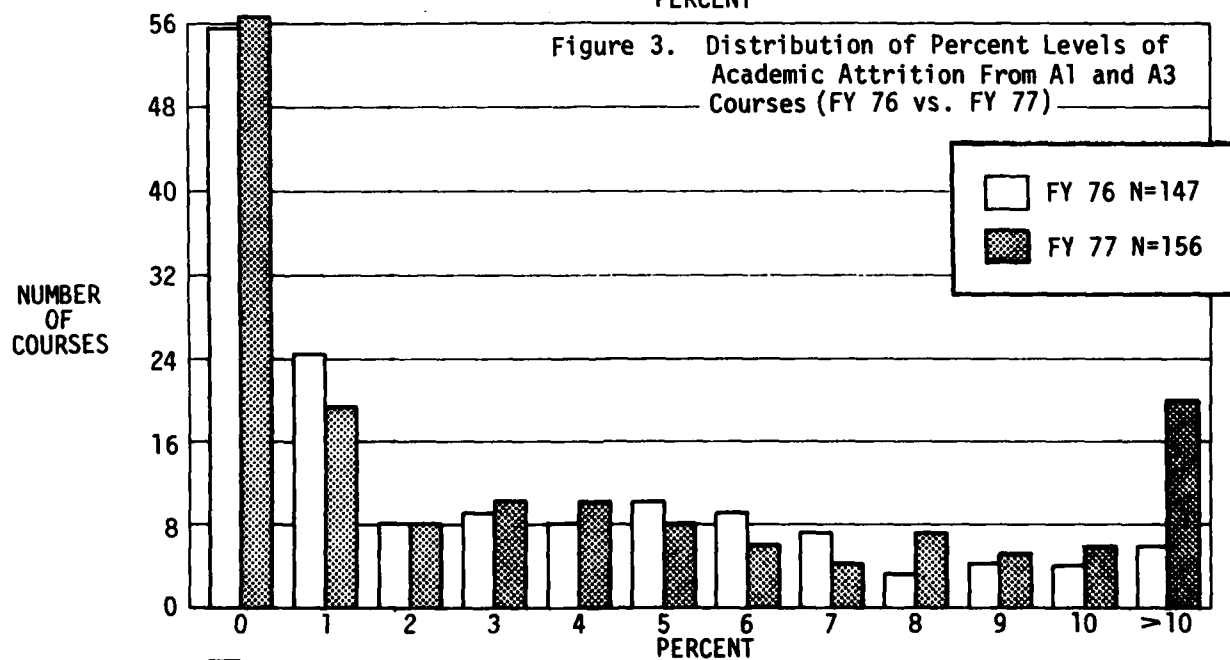
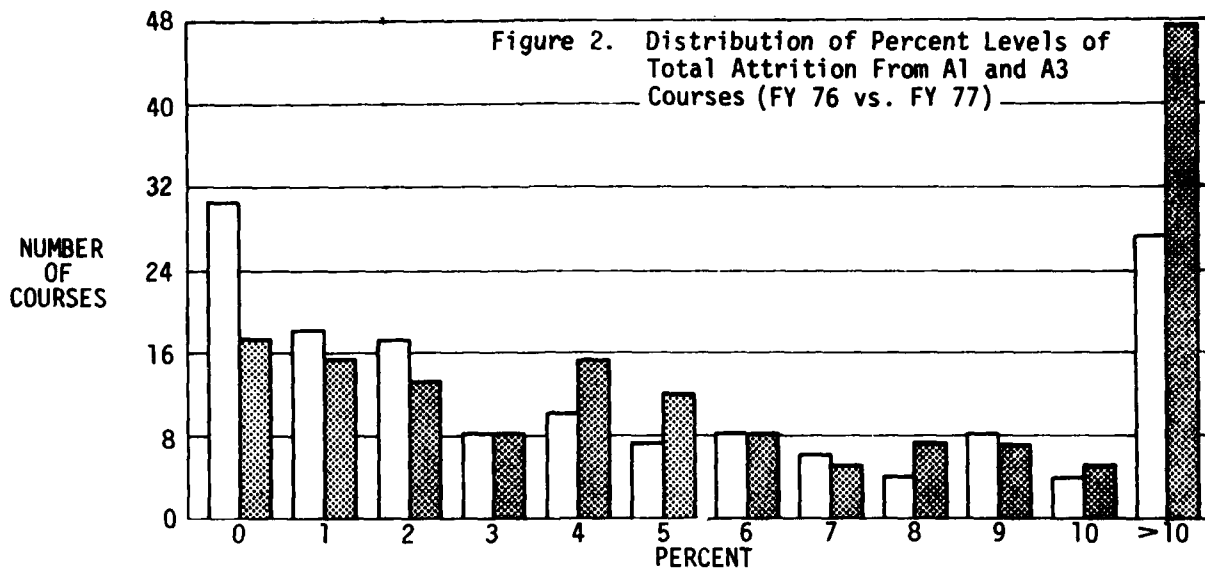
TABLE 1. COURSES HAVING ACADEMIC ATTRITION EQUAL TO OR GREATER THAN 10 PERCENT

| CDP | SHORT TITLE | CIN | LOCATION | PERCENT ATTRITION | |
|-------|------------------|------------|------------------|-------------------|------|
| | | | | FY76 | FY77 |
| 6020 | CTA-A | A-510-0015 | Corry | 5 | 10 |
| 6093 | TM-SUB/TORP TECH | A-123-0127 | Orlando | 0 | 10 |
| 6240 | AVA-AQ-A1 | C-100-2013 | Memphis | 5 | 10 |
| 6264* | ET-A1-CTM | A-100-0012 | Great Lakes | 10 | 10 |
| 6529 | IS A | A-242-0010 | Lowry | 4 | 10 |
| 6537 | AW-A1 | C-210-2010 | Memphis | 6 | 10 |
| 6002 | QMA | A-061-0012 | San Diego | 2 | 11 |
| 6131 | DS-A | A-150-0025 | Mare Island | 9 | 11 |
| 6146 | PLRS-POS-ELECT-A | A-121-0142 | Dam Neck | 8 | 11 |
| 6001 | QMA | A-061-0012 | Orlando | 1 | 12 |
| 6006 | SM-A | A-061-0011 | San Diego | 9 | 12 |
| 6341 | OT A | A-210-0011 | FLEASWTRACENLANT | - | 12 |
| 6126 | QRTR-MSTR-BASE | A-772-0010 | New London | 4 | 13 |
| 6178* | EW-OP-MAINT/TECH | A-102-0154 | Corry | 14 | 13 |
| 6418 | DIVER SECOND | A-433-0022 | Washington, D.C. | - | 13 |
| 6457 | ET(SU) EW TECH | A-102-0224 | Corry | - | 13 |
| 130E* | NUC PWR | A-661-0010 | Orlando | 18 | 14 |
| 6302* | CTT-A-PREP | A-231-0023 | Corry | 10 | 14 |
| 6536 | TM-AS-TORP-TECH | A-123-0127 | Orlando | 0 | 14 |
| 6206 | SH-A | A-823-0012 | Norfolk | 7 | 15 |
| 6076 | PM-A | A-790-0012 | San Diego | 7 | 16 |
| 6301* | CTR-A | A-231-0044 | Corry | 17 | 16 |
| 6278* | AC-A1 | C-222-2010 | Memphis | 12 | 17 |
| 6299 | EW-OP-TECH | A-102-0155 | Corry | 6 | 19 |
| 6451 | EW CM TECH | A-102-0214 | Corry | - | 19 |
| 6452 | RES EM CM TECH | A-102-0214 | Corry | - | 23 |

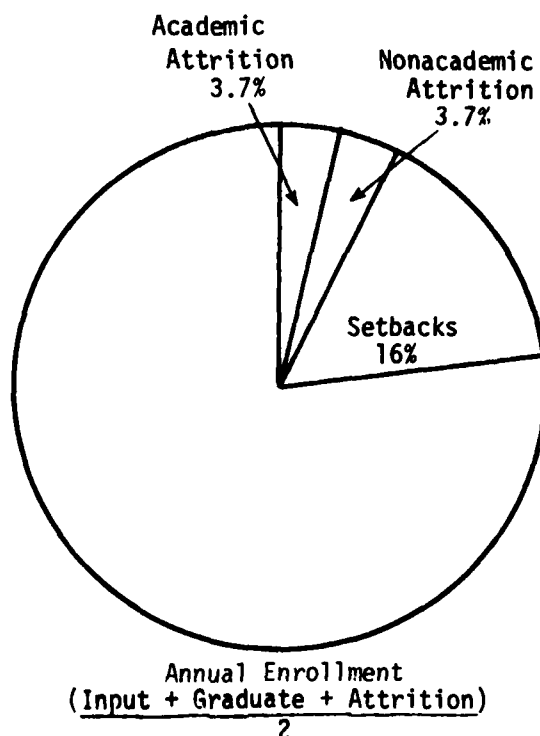
CDP - Course Data Processing Code

CIN - Course Identifying Numbers

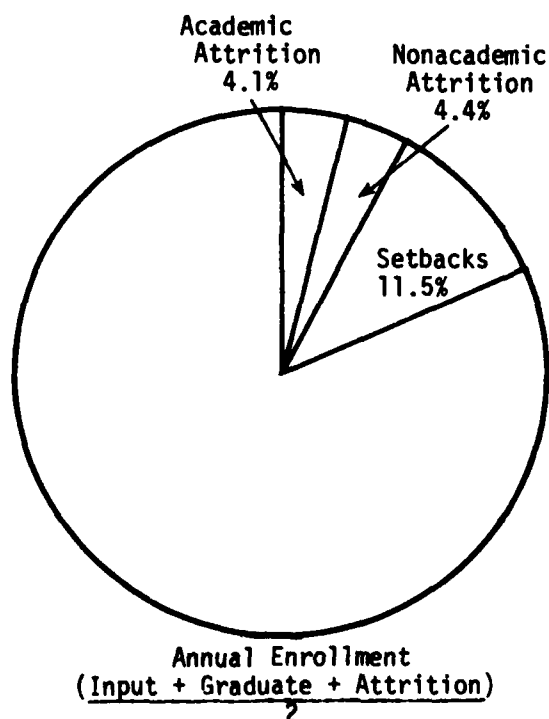
* Courses having academic attrition equal to or greater than 10 percent in FY 76.



| | <u>FY 76</u> | |
|-----------------------|--------------|-------|
| Annual Enrollment* | 86,660 | |
| Total Attrition | 6,446 | 7.4% |
| Academic Attrition | 3,223 | 3.7% |
| Nonacademic Attrition | 3,232 | 3.7% |
| Setbacks | 13,972 | 16.0% |



| | <u>FY 77</u> | |
|-----------------------|--------------|-------|
| Annual Enrollment* | 87,938 | |
| Total Attrition | 7,477 | 8.5% |
| Academic Attrition | 3,595 | 4.1% |
| Nonacademic Attrition | 3,843 | 4.4% |
| Setbacks | 10,090 | 11.5% |



*Referred to as "annual average on board (AOB)" in TAEG Report 47.

Figure 1. Relative Proportions of Attrition (FY 76 vs. FY 77)

SECTION III

RESULTS AND DISCUSSION

This section presents the results of the descriptive, correlation, waiver, and cost analyses. Tables of data summaries for FY 77 attrition, FY 77 qualified and unqualified trainee attrition, and FY 76 vs. FY 77 comparisons used to support the rationale for the inferences and conclusions discussed in this section are provided in appendices A, B, C and D.

PRELIMINARY DESCRIPTIVE ANALYSIS

Figure 1 provides a perspective of the magnitude of attrition in Navy A1 and A3 courses for FY 76 and FY 77. FY 76 data were based on 147 courses whereas the FY 77 data were based on 156 courses. Comparison of these fiscal periods reveals that for 133 courses data were available during two years. This is accounted for by the addition and deletion of courses during the latter fiscal period. This comparison reveals that enrollment of students during FY 77 was 1.5 percent higher than that of FY 76 (87,938 vs. 86,660). Total attrition, academic attrition, and nonacademic attrition were all higher during FY 77 than FY 76. However, the total reported number and percentage of setbacks was significantly less in FY 77 than in FY 76. It is important to note that for the 1.5 percent increase in annual enrollment, total attrition rose 1.1 percent and total setbacks decreased by 4.5 percent.

A comparison of percent total attrition from A1 and A3 courses for FY 76 and FY 77 is presented in figure 2. The histogram shows that attrition rates have shifted toward the right (in the direction of increased attrition). From the histogram in figure 2 it is obvious that attrition increased for nearly all percentage intervals. It should be noted that in FY 76, 30 courses had zero attrition while in FY 77 only 17 courses had zero attrition. Furthermore, while 27 courses had attrition greater than 10 percent in FY 76 this number increased to 47 in FY 77. Appendix A presents a complete list of "A" courses and attrition data for FY 77. Appendix C presents a comparison of attrition data for courses for which FY 76 and FY 77 data were available. Appendix D is similar to appendix C but is restricted to cost data.

Figure 3 presents the comparison of the distributions of academic attrition from A1 and A3 courses while figure 4 presents the same comparison for nonacademic attrition. Courses having academic attrition equal to or greater than 10 percent are listed in table 1. Comparison of these data with those of FY 76 shows:

- . The number of courses increased from 10 (6.8 percent of all courses) in FY 76 to 26 (16.6 percent of all courses) in FY 77 (a 160 percent increase).
- . Six of the ten courses contained in the FY 76 list are also contained in the FY 77 list indicating a continued academic attrition problem for these courses.
- . Eight of the courses are at one location--Corry Station.

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rationale utilized the most relevant information on which to fairly and equitably estimate costs that were not otherwise obtainable.

SUMMARY

Four analyses representing four different perspectives on essentially the same data base were performed. In each analysis, the FY 76 and FY 77 data are presented for comparison purposes. The cost data obtained from the RMS data base is to the lowest level reported and is the most accurate obtainable in the NAVEDTRACOM. However, the reader should be reminded that the data obtained from other sources on which this report is based are characterized by a number of vagaries, specifically:

- . Although the data of the NITRAS system exhibits substantial reliability, it is still subject to error.
- . The classification of an attrite as either academic or nonacademic is made on judgment of circumstances on individual cases. It is difficult to classify borderline cases as academic and often academic attrites are classified as nonacademic attrites.
- . CNET Instruction 1540.4 establishes the policy and guidelines on academic attrition. However, local commands have options at their disposal that can mask an attrition problem.

These variations cannot be accounted for in the aggregate data base of this report. The acquisition of an extensively validated data set would have required the expenditure of additional resources with questionable utility for the gains made by such an investment.

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3. Weeks of Enrollment for the i^{th} Course

$$WE_i = \frac{NG_i (CL + 2) + WAA_i + NAA_i}{7}$$

4. Total Cost of Attrition of the i^{th} Course

$$CA_i = (EWC_i) (WAA_i + NAA_i)$$

5. Cost Academic Attrition of the i^{th} Course

$$CAA_i = \frac{(TCA) (NAA)}{NAA + NNAA}$$

6. Cost Nonacademic Attrition of the i^{th} Course

$$CNAA_i = \frac{(TCA) (NNAA)}{NAA + NNAA}$$

7. Academic Attrite Weeks of the i^{th} Course

$$WAA = \frac{(TWA) (NAA)}{NAA + NNAA}$$

8. Nonacademic Attrite Weeks of the i^{th} Course

$$WNAA = \frac{(TWA) (NNAA)}{NAA + NNAA}$$

Several variables of significant policy interest (i.e., Total Cost of Academic Attrition, Total Cost of Nonacademic Attrition, Total Weeks of Academic Attrition) were obtained by summing overall courses. These results are presented in appendix A.

The above calculations were made utilizing the data directly from the RMS data base; whereas, in the previous report an extract of similar variables (Per Capita Report No. 7) was used. At the time of the present analyses, Per Capita Report No. 7 was unavailable because its software was undergoing modification. However, the results obtained are not considered to be different than those that would have been obtained more directly from Per Capita Report No. 7, since the fundamental data source is the same.

In most cases course cost accounting procedures are such that costs for each course are reported under individual RMS cost codes. For some courses cost accounting procedures resulted in the joint allocation of cost because more than one course was combined under a single RMS cost code. Thus, individual course costs, for the combined course cost codes, must be estimated by proration. In these cases, costs were prorated among courses on the basis of student input; concomitantly attrition costs were prorated on the basis of the relative proportions of academic and nonacademic attrition for each course reported in the TSF. This

of this analysis was to determine the magnitude and impact of attrition in terms of what it costs the training community on a per capita and aggregate per course basis. It is an attempt to determine the impact of academic attrition in terms of lost training resources. This kind of analysis provides a basis for weighing the potential benefits of various CNET options or policies designed to influence attrition. Courses experiencing greater attrition cost may have greater potential for payoff, given that options are available for reducing attrition. Courses with high attrition cost and a relatively low number of attrites may be less likely to derive benefits from policies designed to influence attrition.

DATA SOURCE: RESOURCES MANAGEMENT SYSTEM (RMS) PER CAPITA DATA BASE FY 77

The RMS per capita data base is maintained annually and represents an aggregate of costs which includes cost elements such as student and instructor pay and allowances, equipment maintenance and depreciation, and other direct and indirect costs. The following variables were taken or calculated from the RMS data base:

| | | |
|-------------------|---|---|
| TCC | = | Total Course Cost (student costs, instructor costs, overhead, depreciation) |
| TCA | = | Total Cost Attrition |
| TWA | = | Total Weeks Attrition |
| NAA | = | Number of Academic Attrition |
| NNAA | = | Number of Nonacademic Attrition |
| EWC _i | = | Cost per Enrollment Week of the i th Course |
| DC | = | RMS Direct Cost |
| SC | = | RMS Student Cost |
| NG _i | = | Number of Graduates of the i th Course |
| CL | = | Course Length |
| C _i | = | Total Cost of the i th Course |
| CA _i | = | Total Cost of Attrition of the i th Course |
| CAA _i | = | Total Cost of Nonacademic Attrition for the i th Course |
| CNAA _i | = | Total Cost of Nonacademic Attrition for the i th Course |
| CG _i | = | Course Cost per Graduate of the i th Course |
| WE _i | = | Weeks of Enrollment for the i th Course |
| WAA _i | = | Weeks of Academic Attrition for the i th Course |
| WNAA _i | = | Weeks of Nonacademic Attrition for the i th Course. |

The following equations shown below were used to perform the various calculations. Several intermediate calculations were required to obtain values for the final results. These equations are presented here for completeness; however, the results obtained from these intermediate calculations are not necessarily shown individually in appendix A.

1. Total Course Cost

$$TCC = DC + SC$$

2. Course Cost per Graduate of the ith Course

$$CG_i = \frac{C_i}{NG_i}$$

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TABLE 5. COURSES IN WHICH UNQUALIFIED STUDENTS (WAIVERS) ATTRITED AT SIGNIFICANTLY HIGHER RATES THAN QUALIFIED STUDENTS (continued)

| CDP | SHORT TITLES | CIN | CHI-SQUARE |
|-------|--------------|------------|------------|
| 6515 | AE-A1 | C-602-2012 | 17.85 |
| 6518 | AMS-A1 | C-603-2010 | 4.72 |
| 6523* | PH-LEVEL 1 | C-400-2010 | 4.57 |
| 6529 | ISA | A-242-0010 | 9.62 |
| 6537* | AW-A1 | C-210-2010 | 24.19 |

Significant chi-square = 3.841

CDP - Course Data Processing Code

CIN - Course Identifying Number

*Course had significant chi-square in FY 76

TABLE 6. RMS COURSE COSTS FY 76 VS. FY 77*

| | FY 76 | FY 77 |
|--|-------------|-------------|
| Total Course Cost | 254,308,000 | 231,888,000 |
| Total Attrition Cost | 15,200,000 | 13,164,000 |
| Total Academic Attrition Cost | 8,800,000 | 7,130,000 |
| Total Nonacademic Attrition Cost | 6,400,000 | 6,018,000 |
| Total Attrition Cost/Total Course Cost | 5.97% | 5.67% |
| Total Number of Courses | 118 | 124 |

*The total course cost in FY 77 is significantly lower than FY 76 because the costs for a number of high cost courses were not available in the data base (i.e., nuclear power courses), and in some cases courses were phased out or combined. Inclusion of the cost data for these courses could have a profound effect on the figures listed above.

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TABLE 7. DISTRIBUTION OF ANNUAL COST OF COURSES (FY 76 VS. FY 77)

| Cost in Thousands | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|----------------------|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| Under 1,000 | 57 | 56 | 57 | 56 | 48 | 45 |
| 1,000-1,999 | 17 | 26 | 74 | 82 | 63 | 66 |
| 2,000-2,999 | 13 | 20 | 87 | 102 | 74 | 82 |
| 3,000-3,999 | 7 | 4 | 94 | 106 | 80 | 85 |
| 4,000-4,999 | 10 | 8 | 104 | 114 | 88 | 92 |
| 5,000-5,999 | 4 | 5 | 108 | 119 | 92 | 96 |
| Over 6,000 | 10 | 5 | 118 | 124 | 100 | 100 |

TABLE 8. DISTRIBUTION OF ANNUAL COST OF TOTAL ATTRITION (FY 76 VS. FY 77)

| Cost in Thousands | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|----------------------|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| 0 - 50 | 72 | 70 | 72 | 70 | 61 | 56 |
| 51 - 100 | 8 | 18 | 80 | 88 | 68 | 71 |
| 101 - 150 | 13 | 11 | 93 | 99 | 79 | 80 |
| 151 - 200 | 4 | 8 | 97 | 107 | 82 | 86 |
| 201 - 250 | 2 | 3 | 99 | 110 | 84 | 89 |
| 251 - 300 | 7 | 1 | 106 | 111 | 90 | 90 |
| 301 - 350 | 0 | 1 | 106 | 112 | 90 | 90 |
| 351 - 400 | 0 | 4 | 106 | 116 | 90 | 94 |
| Over 400 | 12 | 8 | 118 | 124 | 100 | 100 |

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- . Courses with an annual cost of over \$6 million decreased by 50 per cent (10 to 5) in FY 77.
- . The biggest increases in numbers of courses occurred in the 1,000 - 1,999 and 2,000 - 2,999 categories (49 percent).

Table 8 displays the distribution of the annual cost of total attrition. Noteworthy items include:

- . The largest increase was in the 51 - 100 thousand cost level (56 percent).
- . The largest decrease was in the 251 - 300 thousand cost level.
- . Although the total courses in the over 400 thousand cost level decreased by four, the number of courses in the 300 thousand to 400 thousand cost category increased from 0 to 5.

While the obtained distributions of FY 77 data on total course costs and course attrition costs are useful in presenting an overall picture, tables 9 and 10 show the costs for academic and nonacademic attrition. Again, for tables 9 and 10 as well as the remaining tables, data are limited to 118 "A" courses for FY 76 and 124 "A" courses for FY 77. Distributions of the annual cost of academic attrition (table 9) and nonacademic attrition (table 10) are very similar. Both are highly skewed in a positive direction toward high cost; i.e., each distribution shows approximately 80 percent of the courses with attrition (academic and nonacademic) cost less than \$100,000. It is important to note that the distributions for FY 76 and FY 77 are almost the same. In the aggregate, academic attrition in FY 77 cost the Navy training community approximately \$7,130,000 for 3,595 attrites while the nonacademic attrition cost was \$6,018,000 for 3,843 attrites. These totals show that although attrition is almost evenly divided between academic and nonacademic (in absolute numbers of attrites), their respective cost is not equal. As percentages of total attrition cost, 54 percent is attributable to academic and 46 percent to nonacademic.

From table 9 it is clear that relatively few courses have large academic attrition costs. The problem is to determine a threshold for concern. In other words, there is no precise way to determine the cost point at which specific courses warrant a more detailed examination. As in the previous report (TAEG Report 47), examining the point at which cumulative academic attrition costs accelerate dramatically (table 9), a threshold of \$150,000 was taken. Given that value as a threshold of concern, 110 courses (88 percent of the "A" courses) have a total academic attrition cost of \$2,741,000, or 38 percent of the total academic attrition cost. Figure 5 pictorially displays these results for FY 77 and FY 76 data. It is noteworthy that in both years approximately the same number of courses (14 and 15) account for a majority of the total academic attrition cost.

Table 11 delineates by CDP and short title the 14 courses which have an annual academic attrition cost greater than \$150,000. This table also presents cost per graduate, percentage academic attrition, throughput, chi-square values of qualified/nonqualified trainees experiencing academic attrition, and mean values of each variable for all the courses. The threshold of \$150,000 was selected utilizing the information of table 9. Three parameters were selected for presentation in

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TABLE 9. ANNUAL COST OF ACADEMIC ATTRITION (FY 76 VS. FY 77)

| Cost in Thousands | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|----------------------|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| 0 - 50 | 85 | 95 | 85 | 95 | 72 | 77 |
| 51 - 100 | 10 | 9 | 95 | 104 | 81 | 84 |
| 101 - 150 | 8 | 6 | 103 | 110 | 87 | 88 |
| 151 - 200 | 3 | 4 | 106 | 114 | 90 | 92 |
| 201 - 250 | 2 | 1 | 108 | 115 | 92 | 93 |
| 251 - 300 | 1 | 4 | 109 | 119 | 92 | 96 |
| 301 - 350 | 2 | 1 | 111 | 120 | 94 | 97 |
| 351 - 400 | 3 | 0 | 114 | 120 | 97 | 97 |
| Over 400 | 4 | 4 | 118 | 124 | 100 | 100 |

TABLE 10. ANNUAL COST OF NONACADEMIC ATTRITION (FY 76 VS. FY 77)

| Cost in Thousands | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|----------------------|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| 0 - 50 | 82 | 88 | 82 | 88 | 68 | 71 |
| 51 - 100 | 16 | 22 | 98 | 110 | 83 | 89 |
| 101 - 150 | 7 | 4 | 105 | 114 | 89 | 92 |
| 151 - 200 | 4 | 4 | 109 | 118 | 92 | 95 |
| 201 - 250 | 4 | 1 | 113 | 119 | 96 | 96 |
| 251 - 300 | 1 | 2 | 114 | 121 | 97 | 98 |
| 301 - 350 | 2 | 1 | 116 | 122 | 98 | 98 |
| 351 - 400 | 1 | 1 | 117 | 123 | 99 | 99 |
| Over 400 | 1 | 1 | 118 | 124 | 100 | 100 |

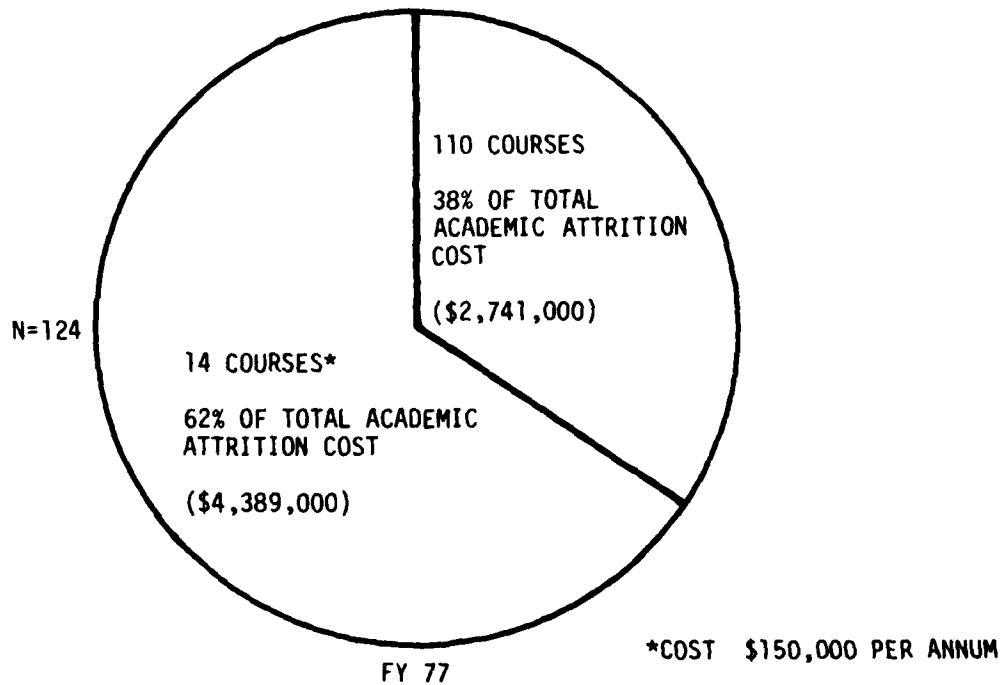
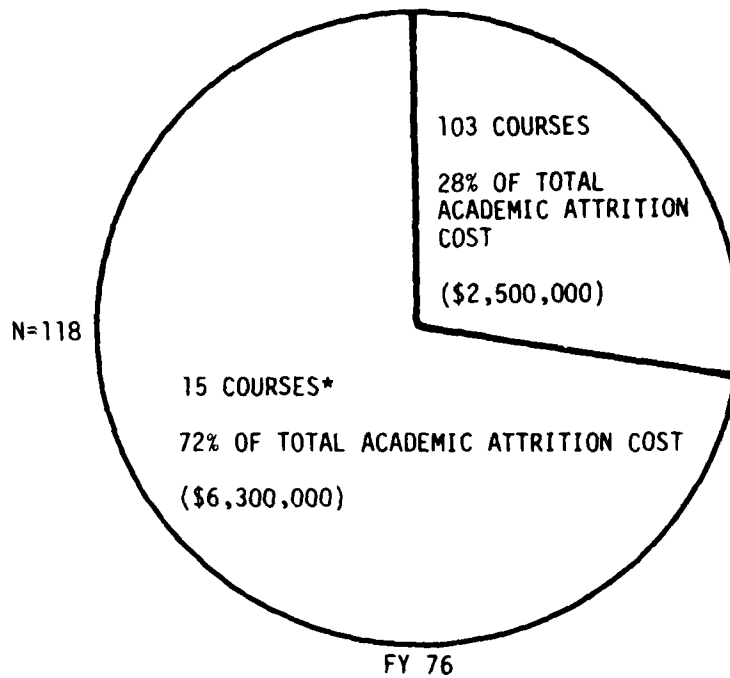


Figure 5. Academic Attrition Costs Proportions Attributable To Courses Above or Below \$150,000 Threshold for Concern (FY 76 vs FY 77).

table 11 because high academic attrition cost may be attributed to one or more of these factors. For example, OT-A (CDP 6341) was high, relative to the mean, for cost per graduate and academic attrition percentage, but had low throughput. Conversely, MS-A (CDP 6125) has a high throughput, a low academic attrition percentage and a relatively low cost per graduate.

In any attempt made to lower the cost of academic attrition it is recommended that the 14 courses identified in table 11 be subjected to the initial analysis, with initial effort being devoted to those courses identified in both years (i.e., Music Basic, RM-A, etc). Analysis of the mean values for all courses of table 11 reveals an academic attrition percentage greater than the mean value of the 124 courses in the overall analyses. However, several of the courses have cost per graduate or throughput less than the mean values of the 124 courses. Therefore, even though all three parameters (cost per graduate, academic attrition rate, and throughput) influence the cost of academic attrition, the academic attrition percentage is still considered to be the most important variable to study.

TABLE 11. COURSES WITH ACADEMIC ATTRITION COST GREATER THAN \$150,000

| CDP | Short Title | Cost per Graduate | Academic Attrition Percent | Throughput | Chi-square* |
|----------------------------|-----------------|-------------------|----------------------------|------------|-------------|
| 6065** | Music Basic | 7,738 | 8 | 598 | *** |
| 6125 | MS-A | 2,299 | 6 | 1,932 | 19.75 |
| 6142 | OS-A | 4,664 | 8 | 1,681 | 88.40 |
| 6144** | RM-A | 2,900 | 7 | 3,342 | 51.27 |
| 6239** | AVA-AT-A1 | 5,753 | 9 | 1,435 | 3.72 |
| 6244 | AFTA-AT-A1 | 10,818 | 5 | 513 | 6.72 |
| 6263** | ET-A1-ETN | 3,045 | 6 | 1,400 | 2.33 |
| 6265** | ET-A1-ETC | 3,119 | 5 | 1,386 | 24.48 |
| 6278** | AC-A1 | 7,125 | 17 | 527 | 14.20 |
| 6301** | CTR-A | 10,307 | 16 | 468 | 9.40 |
| 6302** | CTT-A-PREP | 6,541 | 14 | 656 | 6.06 |
| 6341 | OT-A | 23,304 | 12 | 78 | 0.10 |
| 6451 | EW-CM-TECH | 10,708 | 19 | 94 | *** |
| 6476 | EW FUND/PM TECH | 46,954 | 9 | 36 | *** |
| <hr/> | | | | | |
| Mean for 14 Courses | | 10,377 | 10.1 | 1,010 | |
| Mean Value for 124 Courses | | 4,413 | 4.5 | 595 | |

* Significant chi-square = 3.841

** Courses had academic attrition cost greater than \$150,000 in FY 76

*** Waiver data unavailable

CDP - Course Data Processing Code

The last column of this table lists the chi-square values relating qualification and attrition for each course. The relationship between waivers and academic attrition is positive and significant for eight of the fourteen courses. It is also important to note that eight of the courses were repeats from the FY 76 analysis.

In general, the higher the cost of the course due to large throughput and cost per graduate, the higher the cost of attrition. This result is the same as it was in the FY 76 study. Consequently, to negate this scale factor, the attrition cost as a percentage of course cost was analyzed. Tables 12 through 14 show the frequency distributions of total attrition cost, academic attrition cost, and nonacademic attrition cost, respectively, as percentages of course cost for the 124 courses. Again, each distribution is positively skewed from the 1 percent level to the higher levels of percentage of total course cost. It should be noted that although the number of courses under 1 percent decreased significantly (from 41 to 19), the number of courses from 1 to 10 percent increased in all cases except one. It is of interest to note from table 12 that 15 courses have attrition cost equal to or greater than 10 percent of course cost. In tables 13 and 14 only nine and three courses, respectively, exceed 10 percent of the course cost. This apparent discrepancy can be explained by the combinatorial aspects of the data.

In the overall comparison of FY 76 costs vs. FY 77 costs depicted in table 12 the following are considered most significant:

- . The number of courses in the under 1 percent category decreased from 35 percent in FY 76 to 15 percent in FY 77.
- . Although the number of courses with attrition costs equal to or greater than 10 percent of course cost remained relatively constant from FY 76 to FY 77 (14 vs. 15), the number of courses in the 15 percent and above category increased from three in FY 76 to 11 in FY 77.

Note that the observations for total attrition presented above, apply similarly to the academic and nonacademic attrition. Both forms of attrition show that there is a marked decrease in the number of courses in the under 1 percent level and an increase in the number of courses in the 10 percent and above levels. The critical result is that in FY 76 over half the courses had an attrition cost to course cost ratio of less than 1 percent in both cases; whereas in FY 77 less than 50 percent of the courses were at this level (i.e., 44 percent for academic attrition and 30 percent for nonacademic attrition).

Figures 6 and 7 were constructed from the data in tables 13 and 14 with the curves from FY 76 data represented by the broken lines. From these curves the positive skewness of the data is quite apparent. Cost data for all courses for which RMS data were available in both FY 76 and FY 77 are contained in appendix D. Included in appendix D for reference purposes are the following course cost data: total cost, total attrition cost, academic attrition cost, nonacademic attrition cost, and cost per graduate.

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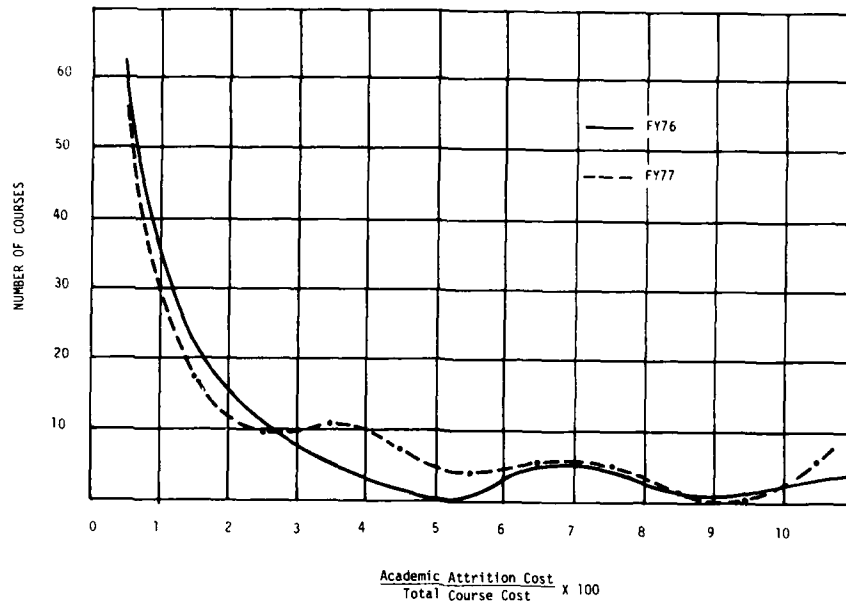


Figure 6. Academic Attrition Cost as a Percentage of Total Course Cost (FY 76 vs. FY 77)

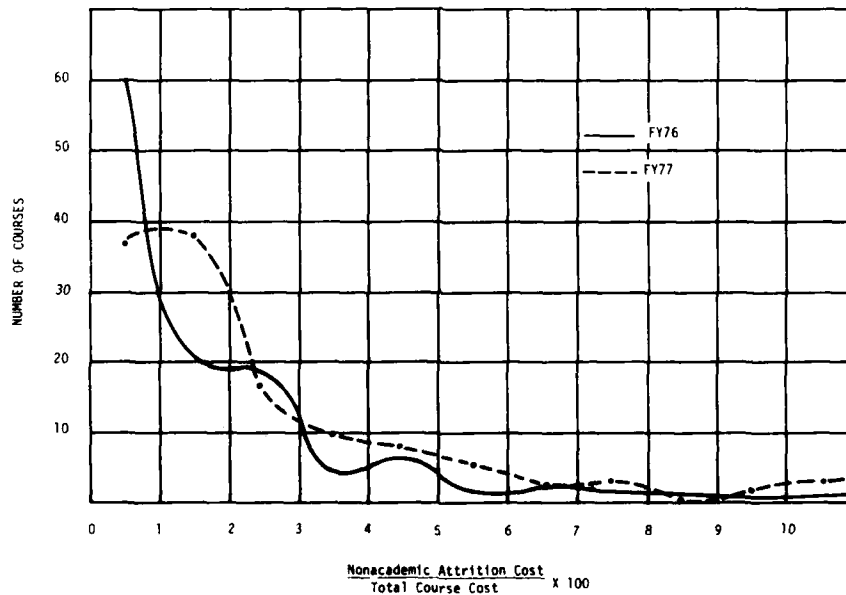


Figure 7. Nonacademic Attrition Cost as a Percentage of Total Course Cost (FY 76 vs. FY 77)

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TABLE 12. DISTRIBUTION OF THE ATTRITION COST
AS A PERCENTAGE OF COURSE COST
(FY 76 VS. FY 77)

| Percent Attrition Cost Course Cost | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|--|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| Under 1 | 41 | 19 | 41 | 19 | 35 | 15 |
| 1.0 to 1.9 | 14 | 22 | 55 | 41 | 47 | 33 |
| 2.0 to 2.9 | 16 | 16 | 71 | 57 | 60 | 46 |
| 3.0 to 3.9 | 14 | 18 | 85 | 75 | 72 | 60 |
| 4.0 to 4.9 | 6 | 3 | 91 | 78 | 77 | 63 |
| 5.0 to 5.9 | 7 | 9 | 98 | 87 | 83 | 70 |
| 6.0 to 6.9 | 1 | 5 | 99 | 92 | 84 | 74 |
| 7.0 to 7.9 | 0 | 4 | 99 | 96 | 84 | 77 |
| 8.0 to 8.9 | 1 | 6 | 100 | 102 | 85 | 82 |
| 9.0 to 9.9 | 4 | 7 | 104 | 109 | 88 | 88 |
| 10.0 to 10.9 | 2 | 1 | 106 | 110 | 90 | 89 |
| 11.0 to 11.9 | 2 | 1 | 108 | 111 | 92 | 90 |
| 12.0 to 12.9 | 5 | 2 | 113 | 113 | 96 | 91 |
| 13.0 to 13.9 | 0 | 0 | 113 | 113 | 96 | 91 |
| 14.0 to 14.9 | 2 | 0 | 115 | 113 | 97 | 91 |
| 15 & Above | 3 | 11 | 118 | 124 | 100 | 100 |

TABLE 13. DISTRIBUTION OF THE ACADEMIC ATTRITION COST
AS A PERCENTAGE OF COURSE COST (FY 76 VS. FY 77)

| Percent Academic Attrition Course Cost | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|--|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| Under 1 | 62 | 55 | 62 | 55 | 53 | 44 |
| 1.0 to 1.9 | 21 | 17 | 83 | 72 | 70 | 58 |
| 2.0 to 2.9 | 12 | 9 | 95 | 81 | 81 | 65 |
| 3.0 to 3.9 | 4 | 12 | 99 | 93 | 84 | 75 |
| 4.0 to 4.9 | 1 | 7 | 100 | 100 | 85 | 81 |
| 5.0 to 5.9 | 0 | 3 | 100 | 103 | 85 | 83 |
| 6.0 to 6.9 | 6 | 6 | 106 | 109 | 90 | 88 |
| 7.0 to 7.9 | 4 | 5 | 110 | 114 | 93 | 92 |
| 8.0 to 8.9 | 1 | 1 | 111 | 115 | 94 | 93 |
| 9.0 to 9.9 | 2 | 0 | 113 | 115 | 96 | 93 |
| 10 & Above | 5 | 9 | 118 | 124 | 100 | 100 |

TABLE 14. DISTRIBUTION OF THE NONACADEMIC ATTRITION COST AS
A PERCENTAGE OF COURSE COST (FY 76 VS. FY 77)

| Percent Nonacademic Attrition Course Cost | Number of Courses | | Cumulative Number of Courses | | Cumulative Percent of Courses | |
|---|----------------------|-------|------------------------------------|-------|-------------------------------------|-------|
| | FY 76 | FY 77 | FY 76 | FY 77 | FY 76 | FY 77 |
| Under 1 | 60 | 37 | 60 | 37 | 51 | 30 |
| 1.0 to 1.9 | 21 | 38 | 81 | 75 | 69 | 60 |
| 2.0 to 2.9 | 19 | 18 | 100 | 93 | 85 | 75 |
| 3.0 to 3.9 | 4 | 10 | 104 | 103 | 88 | 83 |
| 4.0 to 4.9 | 7 | 8 | 111 | 111 | 94 | 90 |
| 5.0 to 5.9 | 1 | 5 | 112 | 116 | 95 | 94 |
| 6.0 to 6.9 | 2 | 1 | 114 | 117 | 97 | 94 |
| 7.0 to 7.9 | 1 | 3 | 115 | 120 | 97 | 97 |
| 8.0 to 8.9 | 1 | 0 | 116 | 120 | 98 | 97 |
| 9.0 to 9.9 | 1 | 1 | 117 | 121 | 99 | 98 |
| 10 & Above | 1 | 3 | 118 | 124 | 100 | 100 |

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For the majority of the courses analyzed, the cost of academic attrition is a very small percentage of the overall cost of a course. The obvious implication for where to focus any effort to reduce academic attrition should be only in those few extremely high attrition cost courses. In the few courses with relatively high attrition costs, both the opportunity to improve and the payoff are greatest. The cost of exploring attrition reducing policies and practices elsewhere would not be likely to equal or exceed the benefit.

SECTION IV

SUMMARY OF FINDINGS AND RECOMMENDATIONS FOR FUTURE CONSIDERATIONS

This section presents the significant findings of this study with comments as appropriate. The findings are organized by attrition levels, attrition cost, and causes of attrition. A series of recommendations is also presented. The order in which the findings are presented does not represent a priority in which they should be addressed for correction of the problem, order of difficulty, or cost to be saved or expended. For each item the specific page(s) of the present report is cited for the reader who wishes more detail.

Extent and Patterns of Attrition in A1 and A3 Courses

- . Total attrition in 156 A1 and A3 courses was 8.5 percent (7,477) of total enrollment (87,938) during FY 77 (page 14).
- . Compared with attrition from the Navy prior to the end of obligated service (42 percent) academic and nonacademic attrition represents a far smaller percentage.³ In fact, the bulk of attrition from A1 and A3 courses represents virtually no direct attrition from the Navy.
- . Academic attrition and nonacademic attrition in the aggregate represents about the same amount of attrites, 4.1 percent academic and 4.4 percent nonacademic (page 14).
- . Individual courses vary widely in the percentage of academic and nonacademic attrites. Specific inferences cannot be made for individual courses (page 14).
- . Sixteen percent (10,917 + 66,653) of the inputs to the 156 A1 and A3 courses are waived; i.e., do not meet minimum ASVAB course entrance requirements. These percentages include waived personnel under special categories such as racial minority and reading difficulty (page 22). "The statistics on page 22 of the report indicate that the Navy is doing a good job in their recruitment of 'unqualified trainees.' Of this group of 10,917, only 827 (8.2%) academically attrited from 'A' school. To eliminate these attrites would have reduced school output by over 10,000 in 1977. Since it is very likely that the recruiters were unable to recruit enough 'qualified trainees' (with a 3.5% academic attrition rate), the enrollment of this unqualified group seems to have been extremely cost effective. In addition, as pointed out...in the report, the bulk of attrites from A1 and A3 courses do not attrite from the Navy."⁴

³ Verbal communication from Captain W. A. Lamm, Special Assistant for Attrition, Deputy Chief of Naval Personnel, Bureau of Naval Personnel, March 1978.

⁴ Personal communication from Dr. I. Shever, CNET Code 005. However, the authors maintain that special attention to the training problems of waived trainees is warranted.

Overall and Course Specific Costs of Academic Attrition

- . Total cost for 124 courses analyzed in this study for FY 77 was \$231,888,000. Attrition constitutes \$13,164,000 of this total (page 21).
- . Academic attrition cost for the 124 courses analyzed is \$7,130,000 per year whereas nonacademic attrition is \$6,018,000 (page 26).
- . In the aggregate, academic attrition costs are greater than non-academic costs because a relatively few high cost courses have far greater academic than nonacademic attrites (page 26).
- . Fourteen courses account for 62 percent of all academic attrition cost (page 26).
- . Fourteen courses have academic attrition costing more than \$150,000 per year (page 29).
- . Nine courses have academic attrition costs greater than 10 percent of their respective course cost (page 30).

Factors Associated with Academic Attrition

- . Variables such as course length, throughput, and number of convenings are positively related to academic attrition (page 22).
- . Forty courses show a significant course waiver effect (page 23, 24).
- . Eight of the 15 most costly courses also show a significant course waiver effect (page 29).
- . Setbacks; i.e., trainees who repeat some portion of a course, represent a potentially greater area of uncertainty than course attrition. Setbacks represent 11.5 percent of enrollment. Their cost and attrition implications are for the most part unknown (page 14).

ATTRITION IN FY 76 VS. FY 77

The following comparisons of FY 76 to FY 77 data must be interpreted with extreme caution because of the limitation of two data points--the differing of courses between years and tenuous nature of the data in both years.

- . Total attrition in FY 77 was greater than that in FY 76.
- . Total attrition cost in FY 77 was less than that of FY 76.
- . Enrollment was higher during FY 77 than in FY 76.

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RECOMMENDATIONS

The recommendations and conclusions of this study are outlined below. They are identical to those offered in the previous study (TAEG Report 47).

- . Careful in-depth monitoring and scrutiny should be continued by CNTECHTRA of all courses, and TAEG's assistance should be requested on specific attrition problems.
- . Special attention should be given to schools that have high waivers and high percentage of waiver failures.
- . Investigate "C" courses to ascertain if "C" school attrites should have been attrited from "A" school.
- . Investigate entire pipeline of a rating to ascertain where and when personnel attrite. A hypothesis is that personnel who attrite from "C" schools did poorly in "A" schools. It is costly to train personnel in a series of courses (i.e., Basic Electricity and Electronics supplies inputs to Electronic Technician "A" school which supplies inputs to "C" school) and have them attrite after completion of "A" school.
- . Investigate courses that have high attrition for a possible two-track system. One track would continue to turn out graduates based on current time and material whereas the other track would increase the course length.
- . Perform detailed analyses on waivers to ascertain if waiver score point spread should be tightened.
- . Investigate further the relationship between setbacks and attrition. Revise/establish setback policy.
- . Investigate when and where setback and/or failure occur during selected courses (i.e., time, subject matter, etc.).
- . Perform analysis on setbacks from the following perspectives:
 - (1) Academic setbacks
 - (2) Nonacademic setbacks
 - (3) Setback policy from individual course, school, and CNET in the aggregate
 - (4) Cost of setbacks.

AND UNQUALIFIED ATTRITION (continued)

| FIELD T | ACADEMIC ATTRITION | | QUALIFIED ATTRITES | | | UNQUALIFIED ATTRITES | | | |
|------------|-----------------------|---------------------|-----------------------|------------------|-------------------------|-------------------------|--------------------|-------------------------|------------|
| | NUMBER | % OF TOTAL INPUT | NUMBER | OF QUAL INPUT | OF ACADEMIC ATTRITES | NUMBER | OF UNQUAL INPUT | OF ACADEMIC ATTRITES | CHI-SQUARE |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 41 | 6±1 | | 8±1 | | | 11±1 | | 11±6 | |
| 13.3 | 2 | 1.9 | 1 | 1.1 | 50.0 | 1 | 7.1 | 50.0 | 0.24 |
| 15.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 19.2 | 19 | 11.4 | 16 | 11.9 | 84.2 | 3 | 9.4 | 15.8 | 0.50 |
| 12.9 | 2 | 1.2 | 1 | 0.7 | 50.0 | 1 | 4.5 | 50.0 | 0.26 |
| 24.9 | 43 | 4.9 | 26 | 3.9 | 60.5 | 17 | 7.7 | 39.5 | 4.35* |
| - | - | - | - | - | - | - | - | - | - |
| 8.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 35.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 7.2 | 2 | 2.9 | 2 | 3.1 | 100.0 | 0 | 0 | 0 | 0.97 |
| 16.7 | 5 | 0.5 | 4 | 0.4 | 80.0 | 1 | 0.6 | 20.0 | 0.12 |
| 20.8 | 8 | 0.7 | 3 | 0.4 | 37.5 | 5 | 2.2 | 62.5 | 6.17* |
| - | - | - | - | - | - | - | - | - | - |
| 8.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 21.8 | 133 | 6.5 | 83 | 5.1 | 62.4 | 50 | 11.1 | 37.6 | 19.75* |
| 38.3 | 9 | 15.0 | 3 | 8.1 | 33.3 | 6 | 26.1 | 66.7 | 2.32 |
| 10.1 | 39 | 13.1 | 31 | 11.6 | 79.5 | 8 | 26.7 | 20.5 | 4.12* |
| 5.5 | 1 | 0.1 | 1 | 0.14 | 100.0 | 0 | 0 | 0 | 3.58 |
| 7.4 | 10 | 1.1 | 9 | 1.1 | 90.0 | 1 | 1.5 | 10.0 | 8.74* |
| 18.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 18.6 | 146 | 8.4 | 76 | 5.4 | 52.1 | 70 | 21.7 | 47.9 | 88.40* |
| 10.3 | 254 | 7.7 | 194 | 6.5 | 76.4 | 60 | 17.6 | 23.6 | 51.27* |
| 11.9 | 82 | 12.2 | 70 | 11.8 | 85.4 | 12 | 15.0 | 14.6 | 0.41 |
| 12.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 7.2 | 3 | 1.7 | 3 | 1.8 | 100.0 | 0 | 0 | 0 | 0.41 |
| 18.8 | 11 | 2.9 | 8 | 2.6 | 72.7 | 3 | 4.3 | 27.3 | 0.12 |
| 9.2 | 28 | 6.6 | 22 | 5.7 | 78.6 | 6 | 15.4 | 21.4 | 3.94* |
| 12.9 | 36 | 35.6 | 32 | 36.4 | 88.9 | 4 | 30.8 | 11.1 | 0.49 |
| 21.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 16.8 | 1 | 1.1 | 1 | 1.3 | 100.0 | 0 | 0 | 0 | 0.79 |
| - | - | - | - | - | - | - | - | - | - |
| 16.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 9.8 | 1 | 0.2 | 0 | 0 | 0 | 1 | 1.7 | 100.0 | 1.84 |
| 10.3 | 1 | 0.3 | 0 | 0 | 0 | 1 | 2.5 | 100.0 | 1.72 |
| 8.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 37.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 26.3 | 104 | 16.4 | 62 | 13.2 | 59.6 | 42 | 25.1 | 40.4 | 11.96* |
| 30.6 | 6 | 1.3 | 3 | 0.9 | 50.0 | 3 | 2.1 | 50.0 | 0.35 |
| 10.0 | 148 | 9.8 | 126 | 9.3 | 85.1 | 22 | 14.6 | 14.9 | 3.72 |
| 14.4 | 36 | 10.2 | 26 | 8.6 | 72.2 | 10 | 19.6 | 27.8 | 4.67* |

TABLE B-1. QUALIFIED AND UNQUALIFIED ATTRIBUTION

| CDP | SHORT TITLE | CIN | QUALIFIED INPUT | | | UNQUALIFIED INPUT | | ACADEMIC ATTRIBUTION |
|------|-------------------|-----------|-----------------|--------|------------------|-------------------|------------------|----------------------|
| | | | TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| | | | 2+1 | | | 4+1 | | |
| 6082 | SW-A | A711 0015 | 105 | 91 | 86.7 | 14 | 13.3 | 2 |
| 6083 | UT-A | A720 0012 | 64 | 54 | 84.4 | 10 | 15.6 | 0 |
| 6093 | TM SUB/TORP TECH | A123 0127 | 167 | 135 | 80.8 | 32 | 19.2 | 19 |
| 6097 | EO-A | A730 0010 | 170 | 148 | 87.1 | 22 | 12.9 | 2 |
| 6102 | PN-A | A500 0014 | 886 | 665 | 75.1 | 221 | 24.9 | 43 |
| 6103 | OT-A | A210 0011 | - | - | - | - | - | - |
| 6108 | FT-A2 | A113 0019 | 455 | 416 | 91.4 | 39 | 8.6 | 0 |
| 6115 | GM-A | A041 0010 | 387 | 250 | 64.6 | 137 | 35.4 | 0 |
| 6118 | SQQ23 PAIR OP-BAS | A130 0097 | 69 | 64 | 92.8 | 5 | 7.2 | 2 |
| 6119 | HT-A1 | A780 0035 | 1106 | 932 | 84.3 | 174 | 16.7 | 5 |
| 6120 | HT-A1 | A780 0035 | 1079 | 855 | 79.2 | 224 | 20.8 | 8 |
| 6122 | CTI-A2-HEBREW | A232 0041 | - | - | - | - | - | - |
| 6123 | CTI-A2-ARABIC | A232 0042 | 25 | 23 | 92.0 | 2 | 8.0 | 0 |
| 6125 | MS-A | A800 0013 | 2062 | 1612 | 78.2 | 450 | 21.8 | 133 |
| 6126 | QRTR-MSTR BASE | A772 0010 | 60 | 37 | 61.7 | 23 | 38.3 | 9 |
| 6131 | DS-A | A150 0025 | 297 | 267 | 89.9 | 30 | 10.1 | 39 |
| 6135 | ET-A-3R | A104 0010 | 775 | 732 | 94.5 | 43 | 5.5 | 1 |
| 6137 | ET-A-3N | A102 0010 | 914 | 846 | 92.6 | 68 | 7.4 | 10 |
| 6140 | CTI-A2-FRENCH | A232 0040 | 16 | 13 | 81.3 | 3 | 18.7 | 0 |
| 6142 | OSA | A221 0011 | 1735 | 1412 | 81.4 | 323 | 18.6 | 146 |
| 6144 | RMA | A202 0014 | 3310 | 2969 | 89.7 | 341 | 10.3 | 254 |
| 6146 | PLRS-POS-ELECT-A | A121 0142 | 674 | 594 | 88.1 | 80 | 11.9 | 82 |
| 6149 | CM-A | A610 0022 | 119 | 104 | 87.4 | 15 | 12.6 | 0 |
| 6161 | CTM-A | A102 0109 | 180 | 167 | 92.8 | 13 | 7.2 | 3 |
| 6167 | DP-A | A531 0016 | 373 | 303 | 81.2 | 70 | 18.8 | 11 |
| 6172 | STS-CLASS A | A130 0029 | 425 | 386 | 90.8 | 39 | 9.2 | 28 |
| 6178 | EW-OP-MAINT/TECH | A102 0154 | 101 | 88 | 87.1 | 13 | 12.9 | 36 |
| 6182 | ASH-A1 | C602 2023 | 124 | 98 | 79.0 | 26 | 21.0 | 0 |
| 6183 | ASM-A1 | C602 2024 | 95 | 79 | 83.2 | 16 | 16.8 | 1 |
| 6184 | INTRO WELD | A700 0011 | - | - | - | - | - | - |
| 6193 | MK-111-OP-BAS | A130 0088 | 12 | 10 | 83.3 | 2 | 16.7 | 0 |
| 6194 | MK-114-OP-BAS | A130 0083 | 604 | 545 | 90.2 | 59 | 9.8 | 1 |
| 6195 | SQS-DG-OP-BAS | A130 0084 | 390 | 350 | 89.7 | 40 | 10.3 | 1 |
| 6196 | SQS-35V-38-OPBAS | A130 0085 | 36 | 33 | 91.7 | 3 | 8.3 | 0 |
| 6197 | SQS-26-BX-OPBAS | A130 0092 | 8 | 5 | 62.5 | 3 | 37.5 | 0 |
| 6198 | SQS-26-CX/AXR | A130 0086 | 444 | 400 | 90.1 | 44 | 9.9 | 0 |
| 6206 | SH-A | A823 0012 | 636 | 469 | 73.7 | 167 | 26.3 | 104 |
| 6209 | SH-A | A823 0012 | 474 | 329 | 69.4 | 145 | 30.6 | 6 |
| 6239 | AVA-AT-A1 | C100 2013 | 1509 | 1358 | 90.0 | 151 | 10.0 | 148 |
| 6240 | AVA-AQ-A1 | C100 2013 | 354 | 303 | 85.6 | 51 | 14.4 | 36 |

*Significant Chi-square = 3.841

QUALIFIED AND UNQUALIFIED ATTRITION

| UNQUALIFIED INPUT | | ACADEMIC ATTRITION | | QUALIFIED ATTRITES | | | UNQUALIFIED ATTRITES | | | CHI-SQUARE |
|-------------------|------------------|--------------------|------------------|--------------------|-----------------|------------------------|----------------------|-------------------|------------------------|------------|
| NUMBER | % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF QUAL INPUT | % OF ACADEMIC ATTRITES | NUMBER | % OF UNQUAL INPUT | % OF ACADEMIC ATTRITES | |
| 1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 4+1 | | 6+1 | | 8+1 | 8+6 | | 11+1 | 11+6 | |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 12 | 8.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 2 | 6.5 | 2 | 6.5 | 1 | 3.4 | 50 | 1 | 50 | 50 | 1.23 |
| 3 | 5.5 | 3 | 5.5 | 3 | 5.8 | 100 | 0 | 0 | 0 | 0.77 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 6 | 12.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 85 | 18.6 | 72 | 15.8 | 39 | 10.5 | 54.2 | 33 | 38.2 | 45.8 | 39.59* |
| 81 | 25.2 | 39 | 12.1 | 22 | 9.1 | 56.4 | 17 | 20.9 | 43.6 | 6.93* |
| 72 | 17.1 | 17 | 4.0 | 10 | 2.9 | 58.8 | 7 | 9.7 | 41.2 | 5.55* |
| 76 | 24.1 | 43 | 13.7 | 27 | 11.3 | 62.8 | 16 | 21.1 | 37.2 | 3.86* |
| 96 | 9.4 | 36 | 3.5 | 25 | 2.7 | 69.4 | 11 | 11.5 | 30.6 | 16.99* |
| 48 | 25.8 | 19 | 10.2 | 7 | 5.1 | 36.8 | 12 | 25.0 | 63.2 | 13.32* |
| 94 | 10.9 | 72 | 8.3 | 57 | 7.4 | 79.2 | 15 | 16.0 | 20.8 | 6.91* |
| 23 | 16.3 | 8 | 5.7 | 7 | 5.9 | 87.5 | 1 | 4.3 | 12.5 | 0.63 |
| 24 | 12.6 | 18 | 9.5 | 17 | 10.2 | 94.4 | 1 | 4.2 | 5.6 | 1.75 |
| 23 | 22.8 | 5 | 5.0 | 2 | 2.6 | 40.0 | 3 | 13.0 | 60 | 2.22 |
| 11 | 15.5 | 3 | 4.2 | 2 | 3.3 | 66.7 | 1 | 9.1 | 33.3 | 3.29 |
| 6 | 11.3 | 6 | 11.3 | 4 | 8.5 | 66.7 | 2 | 33.3 | 33.3 | 1.26 |
| 30 | 10.9 | 24 | 8.7 | 16 | 6.5 | 66.7 | 8 | 26.7 | 33.3 | 11.27* |
| 78 | 33 | 90 | 7.9 | 52 | 6.8 | 57.8 | 38 | 10.1 | 42.2 | 3.31 |
| 79 | 21.8 | 33 | 2.3 | 14 | 1.4 | 42.4 | 19 | 6.8 | 57.6 | 23.29* |
| 45 | 19.7 | 9 | 3.9 | 6 | 3.3 | 66.7 | 3 | 6.7 | 33.3 | 0.39 |
| 11 | 24.4 | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 97 | 19.5 | 41 | 8.2 | 23 | 5.6 | 56.1 | 18 | 18.6 | 43.9 | 15.27* |
| 19 | 13.0 | 3 | 0.2 | 2 | 0.1 | 66.7 | 1 | 0.5 | 33.3 | 3.68 |
| - | - | - | - | - | - | - | - | - | - | - |
| 16 | 12.3 | 4 | 0.4 | 3 | 0.4 | 75.0 | 1 | 0.9 | 25.0 | 2.11 |
| 10 | 16.9 | 9 | 15.3 | 8 | 16.3 | 88.9 | 1 | 10.0 | 11.1 | 0.98 |
| 13 | 23.2 | 3 | 5.4 | 1 | 2.3 | 33.3 | 2 | 15.4 | 66.7 | 1.28 |
| 1 | 16.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 7 | 10.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 17 | 10.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

TABLE B-1. QUALIFIED AND UNQUALIFIED

| CDP | SHORT TITLE | CIN | QUALIFIED INPUT | | | UNQUALIFIED INPUT | | ACAD ATTR |
|------|-------------------|-----------|-----------------|--------|------------------|-------------------|------------------|-----------|
| | | | TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | |
| | | | | | | | | |
| | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| | | | 2±1 | | 4±1 | | | |
| 130E | NUC PWR | A661 0010 | - | - | - | - | - | - |
| 340S | AVR-A1 | C100 2014 | - | - | - | - | - | - |
| 348X | SQ-23-PAIR OPBAS | A130 0097 | - | - | - | - | - | - |
| 541U | SQS 53 OPBAS | A130 0103 | 138 | 126 | 91.3 | 12 | 8.7 | 0 |
| 1300 | NUC PWR | A661 0010 | - | - | - | - | - | - |
| 1301 | NUC PWR | A661 0010 | - | - | - | - | - | - |
| 2053 | CTT-FLR 11/15 OPS | A231 0024 | 31 | 29 | 93.5 | 2 | 6.5 | 2 |
| 3197 | CTT ELINT OP | A231 0028 | 55 | 52 | 94.5 | 3 | 5.5 | 3 |
| 3522 | AVCC-A1 | C780 2010 | - | - | - | - | - | - |
| 3806 | ET SEIR | A104 0012 | - | - | - | - | - | - |
| 4084 | CTT CLSC WIZ OP | A231 0038 | 49 | 43 | 87.8 | 6 | 12.2 | 0 |
| 5261 | SCAT-MOD-2 | A100 0036 | - | - | - | - | - | - |
| 5309 | SCAT-MOD-1 | A100 0035 | - | - | - | - | - | - |
| 6001 | QM-A | A061 0012 | 456 | 371 | 81.4 | 85 | 18.6 | 72 |
| 6002 | QM-A | A061 0012 | 322 | 241 | 74.8 | 81 | 25.2 | 39 |
| 6005 | SM-A | A061 0011 | 420 | 348 | 82.9 | 72 | 17.1 | 17 |
| 6006 | SM-A | A061 0011 | 315 | 239 | 75.9 | 76 | 24.1 | 43 |
| 6015 | SURF-ST-CLASS A | A130 0037 | 1017 | 921 | 90.6 | 96 | 9.4 | 36 |
| 6025 | GMT-A | A644 0014 | 186 | 138 | 74.2 | 48 | 25.8 | 19 |
| 6027 | FTA-A | A113 0010 | 863 | 769 | 89.1 | 94 | 10.9 | 72 |
| 6034 | TM-SS-TORP-OP | A123 0127 | 141 | 118 | 83.7 | 23 | 16.3 | 8 |
| 6036 | TM-OP-A/S-TORP | A123 0127 | 190 | 166 | 87.4 | 24 | 12.6 | 18 |
| 6041 | MN-A | A647 0016 | 101 | 78 | 77.2 | 23 | 22.8 | 5 |
| 6046 | IM-A | A670 0010 | 71 | 60 | 84.5 | 11 | 15.5 | 3 |
| 6047 | QM-A | A670 0018 | 53 | 47 | 88.7 | 6 | 11.3 | 6 |
| 6053 | CTO-A | A580 0016 | 276 | 246 | 89.1 | 30 | 10.9 | 24 |
| 6057 | YN-A | A510 0012 | 1145 | 767 | 67.0 | 378 | 33 | 90 |
| 6059 | SK-CLASS A | A551 0014 | 1279 | 1000 | 78.2 | 279 | 21.8 | 33 |
| 6061 | DK-A | A542 0011 | 229 | 184 | 80.3 | 45 | 19.7 | 9 |
| 6063 | INFO SPEC JO A1 | A570 0011 | 45 | 34 | 75.6 | 11 | 24.4 | 0 |
| 6065 | MUSIC BASIC | A450 0010 | - | - | - | - | - | - |
| 6068 | MR/A | A702 0019 | 497 | 400 | 80.5 | 97 | 19.5 | 41 |
| 6070 | EM/A | A662 0016 | 1691 | 1472 | 87.0 | 219 | 13.0 | 3 |
| 6071 | EM/A | A662 0016 | - | - | - | - | - | - |
| 6073 | IC-A | A623 0012 | 946 | 830 | 87.7 | 116 | 12.3 | 4 |
| 6076 | PM-A | A790 0012 | 59 | 49 | 83.1 | 10 | 16.9 | 9 |
| 6077 | ML-A | A790 0010 | 56 | 43 | 76.8 | 13 | 23.2 | 3 |
| 6078 | EA-A | A412 0010 | 6 | 5 | 83.3 | 1 | 16.7 | 0 |
| 6079 | CE-A | A721 0018 | 65 | 58 | 89.2 | 7 | 10.8 | 0 |
| 6081 | BU-A | A710 0010 | 158 | 141 | 89.2 | 17 | 10.8 | 0 |

*Significant Chi-square = 3.841

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APPENDIX B

QUALIFIED AND UNQUALIFIED TRAINEE ATTRITION

ION DATA FOR CLASS A1 AND A2 COURSES (continued)

| GRADUATES | ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (#) | TOTAL ATTRITION (%) | STANDARD ATTRITION (%) | SETBACKS (#) | SETBACKS (%) | RMS COST CODE | TOTAL COURSE COST (000's) | COST PER GRADUATE | ACADEMIC ATTRITION COST (000's) | NONACADEMIC ATTRITION COST (000's) | TOTAL ATTRITION COST (000's) | MARGINAL COST** (000's) |
|-----------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|------------------------|---------------------------|-----------------|-----------------|---------------|------------------------------|----------------------|---------------------------------------|--|------------------------------------|-------------------------------|
| 39 | 2 | 5 | 1 | 3 | 3 | 8 | 20 | 0 | - | 5FCC | 84 | 2145 | 15.5 | 7.7 | 23.2 | 7.9 |
| 49 | 0 | - | 1 | 2 | 1 | 2 | 20 | 0 | - | 5FCC | 116 | 2363 | 0.0 | 6.7 | 6.7 | 2.3 |
| 365 | 4 | 1 | 11 | 3 | 14 | 4 | 4 | 37 | 10 | 5CBA | 1294 | 3545 | 3.8 | 10.5 | 14.3 | 8.1 |
| 720 | 70 | 9 | 46 | 6 | 121 | 15 | 9 | 203 | 24 | 5CBA | 2763 | 3837 | 101.8 | 66.9 | 168.7 | 96.1 |
| 89 | 0 | - | 15 | 3 | 15 | 3 | 10 | 15 | 3 | 5BBA | 311 | 3495 | 0.0 | 50.7 | 50.7 | 27.9 |
| 1739 | 0 | - | 17 | 1 | 17 | 1 | 2 | 0 | - | 5DBS | 2490 | 1431 | 0.0 | 15.7 | 15.7 | 7.7 |
| 1754 | 0 | - | 0 | - | 0 | - | 2 | 0 | - | 5DBT | 2149 | 1225 | 0.0 | 0.0 | 0.0 | 5.6 |
| 969 | 0 | - | 31 | 3 | 31 | 3 | 10 | 31 | 3 | 5BBA | 3508 | 3619 | 0.0 | 121.2 | 121.2 | 66.6 |
| 111 | 1 | 1 | 0 | - | 1 | 1 | 0 | 1 | 1 | 5SCC | 227 | 2048 | 4.0 | 0.0 | 4.0 | 1.3 |
| 343 | 0 | - | 3 | 1 | 3 | 1 | 0 | 0 | 0 | 5SCB | 605 | 1763 | 0.0 | 1.3 | 1.3 | 0 |
| 25 | 7 | 13 | 22 | 37 | 29 | 46 | 0 | 10 | 19 | - | - | - | - | - | - | - |
| 23 | 0 | - | 3 | 12 | 3 | 12 | 0 | 0 | - | - | - | - | - | - | - | - |
| 21 | 0 | - | 0 | - | 0 | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 94 | 26 | 19 | 6 | 5 | 32 | 23 | 10 | 28 | 20 | 5VB1 | 1007 | 10708 | 317.7 | 73.3 | 391.0 | 132.9 |
| 28 | 8 | 23 | 0 | - | 8 | 23 | 10 | 12 | 32 | 5BV1 | - | - | - | - | - | - |
| 7 | 3 | 13 | 0 | - | 3 | 13 | 10 | 15 | 50 | - | - | - | - | - | - | - |
| 34 | 2 | 3 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 9PBB | - | - | - | - | - | - |
| 36 | 15 | 9 | 10 | 6 | 25 | 15 | 10 | 82 | 42 | 5VBB | 1690 | 46954 | 256.4 | 171.0 | 427.4 | 128.2 |
| - | 0 | - | 1 | 13 | 1 | 13 | 0 | 0 | - | - | - | - | - | - | - | - |
| 2534 | 136 | 5 | 54 | 2 | 193 | 7 | 8 | 0 | - | 5ACC | 4492 | 1772 | 127.7 | 50.7 | 178.5 | 67.8 |
| 1504 | 32 | 2 | 64 | 4 | 97 | 6 | 10 | 488 | 27 | 5AIB | 4206 | 2796 | 42.9 | 85.9 | 128.8 | 65.7 |
| 384 | 4 | 1 | 8 | 2 | 16 | 4 | 5 | 21 | 5 | 5PDD | 802 | 2098 | 3.4 | 6.9 | 10.3 | 3.8 |
| 325 | 22 | 6 | 4 | 1 | 26 | 7 | 8 | 38 | 10 | 5PDB | 1100 | 3385 | 34.9 | 6.3 | 41.2 | 14.8 |
| 1573 | 34 | 2 | 52 | 3 | 87 | 5 | 7 | 379 | 20 | 5BFB | 5424 | 3448 | 54.0 | 82.6 | 136.6 | 66.9 |
| 589 | 13 | 2 | 19 | 3 | 26 | 4 | 7 | 109 | 16 | 5AEB | 2230 | 3785 | 23.4 | 34.2 | 57.7 | 17.3 |
| 1397 | 15 | 1 | 44 | 3 | 60 | 4 | 7 | 220 | 14 | 5AED | 2865 | 2050 | 21.6 | 63.3 | 84.9 | 36.5 |
| 1963 | 21 | 1 | 84 | 4 | 106 | 5 | 10 | 409 | 18 | 5AEC | 5226 | 2662 | 37.4 | 149.7 | 187.1 | 91.7 |
| 566 | 6 | 1 | 30 | 5 | 36 | 6 | 5 | 231 | 33 | 5PCB | 2489 | 4397 | 12.7 | 63.5 | 76.3 | 28.2 |
| 326 | 12 | 4 | 15 | 5 | 27 | 9 | 5 | 82 | 25 | 5PBB | 2079 | 6379 | 31.4 | 39.4 | 70.8 | 31.8 |
| 433 | 0 | - | 4 | 1 | 4 | 1 | 5 | 0 | - | 5BEB | 1096 | 2531 | 0.0 | 12.8 | 12.8 | 5.1 |
| 449 | 0 | - | 14 | 3 | 14 | 3 | 5 | 0 | - | 5SBB | - | - | - | - | - | - |
| 290 | 30 | 8 | 4 | 1 | 34 | 9 | 8 | 22 | 6 | 5HBB | - | - | - | - | - | - |
| 406 | 0 | - | 4 | 1 | 4 | 1 | 5 | 26 | 6 | 5PDC | 792 | 1951 | 0.0 | 6.3 | 6.3 | 2.1 |
| 544 | 17 | 3 | 11 | 2 | 28 | 5 | 8 | 28 | 5 | 5SCB | 1059 | 1946 | 14.2 | 9.2 | 23.4 | 10.1 |
| 233 | 28 | 10 | 11 | 4 | 40 | 14 | 10 | 22 | 8 | 5MBB | 607 | 2605 | 10.9 | 4.3 | 15.2 | 11.3 |
| 192 | 0 | - | 4 | 2 | 4 | 2 | 5 | 8 | 4 | 5ADB | 588 | 3064 | 0.0 | 6.4 | 6.4 | 2.7 |
| 73 | 12 | 14 | 0 | - | 12 | 14 | 5 | 6 | 7 | 5ABB | 241 | 3305 | 18.3 | 0.0 | 18.3 | 5.3 |
| 505 | 57 | 10 | 28 | 5 | 88 | 15 | 15 | 199 | 31 | 5BCB | 1954 | 3869 | 99.7 | 49.0 | 148.6 | 62.4 |

TABLE A-1. ATTRITION DATA FOR CLASS A1 AND A2 COURSES (cont)

| CDP | SHORT TITLE | CIN | LOCATION | COURSE LENGTH (Days) | NUMBER OF CONVENINGS | TYPE COURSE* | MINIMUM ASVAB | INPUT | GRADUATES | ACADEMIC ATTRITION (%) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (%) |
|------|-----------------|-----------|------------|-------------------------|-------------------------|--------------|---------------|-------|-----------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|
| 6346 | SCAT-MOD-4 | A100 0051 | NEW LONDON | 12 | 10 | L | 100 | 39 | 39 | 2 | 5 | 1 | 3 | 3 |
| 6347 | SCAT-MOD-3 | A100 0050 | NEW LONDON | 19 | 11 | L | 100 | 59 | 49 | 0 | - | 1 | 2 | 1 |
| 6376 | FTG-A2 | A113 0019 | G. LAKES | 96 | 25 | L | 225 | 333 | 365 | 4 | 1 | 11 | 3 | 14 |
| 6377 | FTG-A1 | A113 0010 | G. LAKES | 75 | 50 | L | 225 | 770 | 720 | 70 | 9 | 46 | 6 | 121 |
| 6378 | GMT ASROC A | A041 0010 | G. LAKES | 82 | 50 | L | 163 | 100 | 89 | 0 | - | 15 | 3 | 15 |
| 6380 | RM A SEA | A202 0026 | SAN DIEGO | 31 | 252 | P | 100 | 1651 | 1739 | 0 | - | 17 | 1 | 17 |
| 6381 | RM A SHORE | A202 0027 | SAN DIEGO | 17 | 252 | P | 100 | 1709 | 1754 | 0 | - | 0 | - | 0 |
| 6400 | GMG A | A041 0010 | G. LAKES | 82 | 50 | L | 163 | 1062 | 969 | 0 | - | 31 | 3 | 31 |
| 6401 | BQQ-2 BAS OP | A130 0189 | SAN DIEGO | 26 | | L | 225 | 104 | 111 | 1 | 1 | 0 | - | 1 |
| 6402 | OA-1283 BAS OP | A130 0188 | SAN DIEGO | 26 | | L | 225 | 337 | 343 | 0 | - | 3 | 1 | 3 |
| 6418 | DIVER SECOND | A433 0022 | WASH DC | 86 | 4 | L | 0 | 72 | 25 | 7 | 13 | 22 | 37 | 29 |
| 6419 | SCUBA DIVER | A433 0023 | WASH DC | 29 | | L | 0 | 25 | 23 | 0 | - | 3 | 12 | 3 |
| 6444 | I IN STS "A" | A130 0204 | SAN DIEGO | 96 | 3 | L | 0 | 21 | 21 | 0 | - | 0 | - | 0 |
| 6451 | EW CM TECH | A102 0214 | CORRY | 68 | 25 | L | 0 | 154 | 94 | 26 | 19 | 6 | 5 | 32 |
| 6452 | RES EM CM TECH | A102 0214 | CORRY | 47 | 25 | L | 0 | 34 | 28 | 9 | 23 | 0 | - | 8 |
| 6457 | ET (SU) EW TECH | A102 0224 | CORRY | 138 | 5 | L | 0 | 38 | 7 | 3 | 13 | 0 | - | 3 |
| 6473 | AG A1 | C420 2010 | CHANUTE | 101 | 16 | L | 110 | 125 | 34 | 2 | 3 | 2 | 3 | 4 |
| 6476 | EW FUND/PM TECH | A102 0209 | CORRY | 129 | 14 | L | 0 | 272 | 36 | 15 | 9 | 10 | 6 | 25 |
| 6478 | CTM EW TECH | A102 0234 | CORRY | | | | 15 | - | - | 0 | - | 1 | 13 | 1 |
| 6501 | ADJ-A1 | A601 2010 | MEMPHIS | 41 | 252 | B | 193 | 2731 | 2534 | 136 | 5 | 54 | 2 | 193 |
| 6506 | AO-A1 | A646 2010 | MEMPHIS | 64 | 49 | L | 201 | 1621 | 1504 | 32 | 2 | 64 | 4 | 97 |
| 6512 | ABF-A1 | C821 2010 | LAKEHURST | 26 | 24 | L | 96 | 419 | 384 | 4 | 1 | 8 | 2 | 16 |
| 6513 | ABE-A1 | C680 2012 | LAKEHURST | 45 | 25 | L | 96 | 394 | 325 | 22 | 6 | 4 | 1 | 26 |
| 6515 | AE-A1 | C602 2012 | MEMPHIS | 75 | 100 | L | 212 | 1835 | 1573 | 34 | 2 | 52 | 3 | 87 |
| 6516 | AME-A1 | C602 2015 | MEMPHIS | 62 | 50 | L | 96 | 668 | 589 | 13 | 2 | 19 | 3 | 26 |
| 6517 | AMH-A1 | C602 2017 | MEMPHIS | 49 | 50 | L | 96 | 1521 | 1397 | 15 | 1 | 44 | 3 | 60 |
| 6518 | AMS-A1 | C603 2010 | MEMPHIS | 61 | 50 | L | 96 | 2171 | 1963 | 21 | 1 | 84 | 4 | 106 |
| 6519 | PR-BASIC | C602 2010 | LAKEHURST | 70 | 50 | P | 156 | 605 | 566 | 6 | 1 | 30 | 5 | 36 |
| 6520 | AG-A1 | C420 2010 | LAKEHURST | 101 | 16 | L | 110 | 246 | 326 | 12 | 4 | 15 | 5 | 27 |
| 6521 | TD-A1 | C191 2010 | MEMPHIS | 39 | 252 | P | 225 | 413 | 433 | 0 | - | 4 | 1 | 4 |
| 6522 | AKA | C551 2010 | MERIDIAN | 51 | 50 | P | 105 | 492 | 449 | 0 | - | 14 | 3 | 14 |
| 6523 | PH-LEVEL 1 | C400 2010 | PENSACOLA | 85 | 52 | P | 105 | 425 | 290 | 30 | 8 | 4 | 1 | 34 |
| 6527 | ABH-A1 | C822 2010 | LAKEHURST | 24 | 25 | L | 96 | 424 | 406 | 0 | - | 4 | 1 | 4 |
| 6528 | AZ-A1 | C516 2010 | MERIDIAN | 47 | 25 | L | 105 | 553 | 544 | 17 | 3 | 11 | 2 | 28 |
| 6529 | ISA | A242 0010 | LOWRY | 82 | 16 | L | 105 | 295 | 233 | 28 | 10 | 11 | 4 | 40 |
| 6530 | ASE-A1 | C602 2019 | MEMPHIS | 64 | 25 | L | 156 | 221 | 192 | 0 | - | 4 | 2 | 4 |
| 6536 | TM-AS-TORP-TECH | A123 0127 | ORLANDO | 40 | 25 | L | 96 | 84 | 73 | 12 | 14 | 0 | - | 12 |
| 6537 | AW-A1 | C210 2010 | MEMPHIS | 80 | 50 | L | 110 | 581 | 505 | 57 | 10 | 28 | 5 | 88 |

*P = Self-paced
L = Lock-step

C = Computer Managed Instruction
B = Both Self-paced and Lock-step

** As defined on p. 21

DATA FOR CLASS A1 AND A3 COURSES (continued)

| ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (#) | TOTAL ATTRITION (%) | STANDARD ATTRITION (%) | SETBACKS (#) | SETBACKS (%) | RMS COST CODE | TOTAL COURSE COST (000's) | COST PER GRADUATE | ACADEMIC ATTRITION COST (000's) | NONACADEMIC ATTRITION COST (000's) | TOTAL ATTRITION COST (000's) | MARGINAL COST** (000's) |
|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|------------------------|---------------------------|-----------------|-----------------|---------------|------------------------------|----------------------|---------------------------------------|--|------------------------------------|-------------------------------|
| 30 | | 24 | 4 | 55 | 9 | 10 | 303 | 41 | 5BBD | 5550 | 10818 | 154.6 | 123.7 | 278.3 | 150.3 |
| 9 | | 4 | 3 | 12 | 10 | 10 | 61 | 41 | 5BBD | 1120 | 8238 | 31.8 | 14.1 | 45.9 | 24.8 |
| 6 | | 8 | 5 | 12 | 8 | 10 | 67 | 37 | 5BBD | 1404 | 8830 | 21.2 | 28.3 | 49.5 | 26.7 |
| 29 | | 608 | 19 | 608 | 19 | 10 | 0 | - | 5JGB | 5128 | 2028 | 8.7 | 182.2 | 190.9 | |
| 0 | | 69 | 5 | 69 | 5 | 10 | 0 | - | 5JFA | 1357 | 1021 | 0.0 | 11.8 | 11.8 | 3.9 |
| 0 | | 345 | 7 | 345 | 7 | 10 | 0 | - | 5JBA | 9578 | 2103 | 0.0 | 534.8 | 534.8 | 278.1 |
| 88 | | 88 | 6 | 198 | 13 | 12 | 198 | 13 | 5DBA | 4263 | 3045 | 198.4 | 198.4 | 396.8 | 222.2 |
| 23 | | 18 | 8 | 41 | 17 | 12 | 31 | 13 | 5DBA | 663 | 2986 | 41.5 | 32.5 | 74.0 | 41.5 |
| 74 | | 104 | 7 | 181 | 12 | 12 | 168 | 11 | 5DBA | 4323 | 3119 | 156.0 | 219.2 | 375.1 | 210.1 |
| 30 | | 20 | 2 | 50 | 5 | 8 | 103 | 10 | 5DBA | 2946 | 2966 | 86.8 | 57.9 | 114.7 | 81.0 |
| 10 | | 6 | 3 | 14 | 7 | 8 | 18 | 9 | 5DBA | 588 | 3094 | 30.4 | 18.2 | 48.7 | 27.3 |
| 18 | | 18 | 2 | 36 | 4 | 8 | 75 | 8 | 5DBA | 2670 | 3006 | 49.6 | 49.6 | 99.3 | 55.6 |
| 114 | | 25 | 4 | 137 | 20 | 15 | 317 | 41 | 5FBB | 3755 | 7125 | 290.7 | 63.8 | 354.5 | 109.9 |
| 2 | | 2 | 1 | 4 | 2 | 5 | 16 | 7 | 5HBB | 780 | 3733 | 5.3 | 5.3 | 10.6 | 3.7 |
| 0 | | 0 | - | 0 | - | 5 | 0 | - | 5MCB | 91 | 6975 | 0.0 | 0.0 | 0.0 | 0 |
| 1 | | 1 | 2 | 2 | 4 | 4 | 1 | 2 | 5MOB | 218 | 4842 | 0.0 | 0.0 | 0.0 | 0 |
| 0 | | 10 | 7 | 10 | 7 | 4 | 3 | 2 | 5NCB | 730 | 5937 | 0.0 | 9.6 | 9.6 | 5.6 |
| 0 | | 2 | 2 | 2 | 2 | 6 | 0 | - | 5HBB | 494 | 4495 | 0.0 | 6.1 | 6.1 | 2.2 |
| 2 | | 7 | 4 | 9 | 5 | 5 | 13 | 7 | 5PDB | 955 | 5335 | 1.5 | 5.4 | 7.0 | 2.5 |
| 0 | | 6 | 2 | 6 | 2 | 5 | 3 | 1 | 5PCB | 1099 | 3340 | 0.0 | 2.2 | 2.2 | 1.0 |
| 16 | | 3 | 10 | 24 | 27 | 12 | 99 | 78 | 9VBB | | | | | | |
| 0 | | 0 | - | 0 | - | 10 | 0 | - | | | | | | | |
| 103 | | 56 | 9 | 162 | 24 | 25 | 485 | 58 | 5QCH | 4824 | 10307 | 542.3 | 294.9 | 837.2 | 36.0 |
| 123 | | 33 | 4 | 162 | 18 | 15 | 686 | 59 | 5QCJ | 4291 | 6541 | 605.3 | 162.4 | 767.7 | 330.1 |
| 1 | | 1 | 1 | 2 | 2 | 0 | 34 | 28 | 5QCK | 361 | 3644 | 0.0 | 0.0 | 0.0 | 0 |
| 13 | | 4 | 1 | 17 | 4 | 0 | 193 | 37 | 5QCM | 1088 | 2733 | 16.0 | 4.9 | 21.0 | 7.8 |
| 3 | | 1 | 1 | 6 | 4 | 3 | 16 | 11 | - | | | | | | |
| 0 | | 1 | 6 | 1 | 6 | 3 | 0 | - | - | | | | | | |
| 0 | | 1 | 6 | 1 | 6 | 3 | 0 | - | - | | | | | | |
| 0 | | 0 | - | 0 | - | 3 | 5 | 22 | - | | | | | | |
| 0 | | 0 | - | 0 | - | 3 | 0 | - | - | | | | | | |
| 0 | | 0 | - | 0 | - | 3 | 0 | - | - | | | | | | |
| 1 | | 0 | - | 1 | 3 | 3 | 0 | - | - | | | | | | |
| 0 | | 0 | - | 0 | - | 3 | 0 | - | - | | | | | | |
| 4 | | 2 | 2 | 7 | 6 | 0 | 1 | 1 | 5FDB | 570 | 5939 | 86.9 | 43.5 | 130.4 | 41.7 |
| 0 | | 22 | 2 | 22 | 2 | 2 | 22 | 2 | 5BBF | 2274 | 2031 | 0.0 | 29.9 | 29.9 | 12.6 |
| 16 | | 6 | 5 | 22 | 16 | 10 | 8 | 6 | 5ZBB | 1818 | 23304 | 233.4 | 87.5 | 321.0 | 54.6 |
| 0 | | 1 | 2 | 1 | 2 | 20 | 0 | - | 5FCC | 92 | 2196 | 0.0 | 1.9 | 1.9 | 1.0 |
| 1 | | 1 | 3 | 2 | 5 | 20 | 0 | - | 5FCC | 86 | 2200 | 6.5 | 6.5 | 13.1 | 4.4 |
| 0 | | 0 | - | 0 | - | 20 | 0 | - | 5FCC | 77 | 2340 | 0.0 | 0.0 | 0.0 | 0 |

TABLE A-1. ATTRITION DATA FOR CLASS A1 AND A3 COURSES

| CDP | SHORT TITLE | CIN | LOCATION | COURSE LENGTH (Days) | NUMBER OF CONVENINGS | TYPE COURSE* | MINIMUM ASVAB | INPUT | GRADUATES | ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (#) |
|------|------------------|-----------|----------------|-------------------------|-------------------------|--------------|---------------|-------|-----------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|
| 6244 | AFTA-AT-A1 | C100 2010 | MEMPHIS | 180 | 51 | L | 225 | 661 | 513 | 30 | 5 | 24 | 4 | 55 |
| 6245 | AFTA-AQ-A1 | C100 2010 | MEMPHIS | 180 | 51 | L | 225 | 101 | 136 | 9 | 7 | 4 | 3 | 12 |
| 6246 | AFTA-AX-A1 | C100 2010 | MEMPHIS | 180 | 51 | L | 225 | 135 | 159 | 6 | 4 | 8 | 5 | 12 |
| 6260 | BT-A | A651 0010 | G. LAKES | 53 | 50 | P | 156 | 3266 | 2528 | 29 | 1 | 608 | 19 | 608 |
| 6261 | EN-A | A652 0018 | G. LAKES | 42 | 50 | P | 156 | 1357 | 1328 | 0 | - | 69 | 5 | 69 |
| 6262 | MM-A | A651 0015 | G. LAKES | 42 | 50 | P | 156 | 4954 | 4554 | 0 | - | 345 | 7 | 345 |
| 6263 | ET-A1-ETN | A100 0012 | G. LAKES | 68 | 50 | L | 225 | 1442 | 1400 | 88 | 6 | 88 | 6 | 198 |
| 6264 | ET-A1-CTM | A100 0012 | G. LAKES | 68 | 50 | L | 225 | 217 | 222 | 23 | 10 | 18 | 8 | 41 |
| 6265 | ET-A1-ETR | A100 0012 | G. LAKES | 68 | 50 | L | 225 | 1495 | 1386 | 74 | 5 | 104 | 7 | 184 |
| 6266 | ET-A2-ETN | A100 0014 | G. LAKES | 47 | 50 | L | 225 | 968 | 993 | 30 | 3 | 20 | 2 | 50 |
| 6267 | ET-A2-CTN | A100 0014 | G. LAKES | 47 | 50 | L | 225 | 202 | 190 | 10 | 5 | 6 | 3 | 14 |
| 6268 | ET-A2-ETR | A100 0014 | G. LAKES | 47 | 50 | L | 225 | 900 | 888 | 18 | 2 | 18 | 2 | 36 |
| 6278 | AC-A1 | C222 2010 | MEMPHIS | 96 | 49 | L | 110 | 702 | 527 | 114 | 17 | 25 | 4 | 137 |
| 6286 | BU-A | A710 0010 | GULFPORT | 66 | 10 | L | 150 | 229 | 209 | 2 | 1 | 2 | 1 | 4 |
| 6287 | EA-A | A412 0010 | GULFPORT | 81 | 2 | L | 105 | 27 | 13 | 0 | - | 0 | - | 0 |
| 6288 | SW-A | A711 0015 | GULFPORT | 61 | 6 | L | 150 | 68 | 45 | 1 | 2 | 1 | 2 | 2 |
| 6289 | CE-A | A721 0018 | GULFPORT | 58 | 12 | L | 156 | 140 | 123 | 0 | - | 10 | 7 | 10 |
| 6290 | UT-A | A720 0012 | GULFPORT | 79 | 8 | L | 150 | 132 | 110 | 0 | - | 2 | 2 | 2 |
| 6291 | CM-A | A610 0022 | GULFPORT | 94 | 12 | L | 150 | 172 | 179 | 2 | 1 | 7 | 4 | 9 |
| 6292 | EO-A | A730 0010 | GULFPORT | 61 | 12 | L | 150 | 266 | 329 | 0 | - | 6 | 2 | 6 |
| 6299 | EW-OP-TECH | A102 0155 | CORRY | 138 | 25 | P | 110 | 76 | 79 | 16 | 19 | 8 | 10 | 24 |
| 6300 | PC-A | A515 0018 | FT B. HARRISON | 24 | 22 | P | 110 | 211 | 216 | 0 | - | 0 | - | 0 |
| 6301 | CTR-A | A231 0044 | CORRY | 154 | 50 | P | 100 | 720 | 468 | 103 | 16 | 56 | 9 | 162 |
| 6302 | CTT-A-PREP | A231 0023 | CORRY | 89 | 50 | P | 100 | 984 | 656 | 123 | 14 | 33 | 4 | 162 |
| 6319 | CTT/ICR/NONMORSE | A231 0047 | CORRY | 40 | 33 | P | 100 | 109 | 99 | 1 | 1 | 1 | 1 | 2 |
| 6320 | CTT-SPE-NONMORSE | A231 0046 | CORRY | 32 | 50 | P | 100 | 451 | 398 | 13 | 3 | 4 | 1 | 17 |
| 6321 | CTI-A2-RUSSIAN | A232 0021 | GOODFELLOW | 105 | 15 | L | 206 | 131 | 141 | 3 | 2 | 1 | 1 | 6 |
| 6322 | CTI-A2-CHI-MAN | A232 0022 | GOODFELLOW | 112 | 7 | L | 206 | 16 | 18 | 0 | - | 1 | 6 | 1 |
| 6323 | CTI-A2-VIETNAM | A232 0023 | GOODFELLOW | 77 | 6 | L | 206 | 16 | 18 | 0 | - | 1 | 6 | 1 |
| 6328 | CTI-A2-KOREAN | A232 0028 | GOODFELLOW | 107 | 7 | L | 206 | 23 | 19 | 0 | - | 0 | - | 0 |
| 6329 | CTI-A2-COMMON BL | A232 0029 | GOODFELLOW | 28 | 3 | L | 206 | 4 | 4 | 0 | - | 0 | - | 0 |
| 6330 | CTI-A2-GERMAN | A232 0030 | GOODFELLOW | 42 | 2 | L | 206 | 4 | 2 | 0 | - | 0 | - | 0 |
| 6331 | CTI-A2-SPANISH | A232 0031 | GOODFELLOW | 63 | 14 | L | 206 | 29 | 36 | 1 | 3 | 0 | - | 1 |
| 6333 | CTI-A2-SERB-CRO | A232 0033 | GOODFELLOW | 28 | 1 | L | 206 | 3 | 3 | 0 | - | 0 | - | 0 |
| 6337 | UWFT-CLASS A | A130 0138 | NEW LONDON | 75 | 8 | L | 225 | 116 | 96 | 4 | 4 | 2 | 2 | 7 |
| 6339 | HTA-PH 2 | A700 0010 | PHIL | 60 | 36 | L | 156 | 1069 | 1119 | 0 | - | 22 | 2 | 22 |
| 6341 | OT-A | A210 0011 | FLEASWTRACLANT | 75 | 8 | L | 258 | 170 | 78 | 16 | 12 | 6 | 5 | 22 |
| 6343 | SCAT-MODS 3-6 | A101 0134 | NEW LONDON | 68 | 7 | L | 100 | 44 | 42 | 0 | - | 1 | 2 | 1 |
| 6344 | SCAT-MOD-6 | A100 0053 | NEW LONDON | 19 | 10 | L | 100 | 41 | 39 | 1 | 3 | 1 | 3 | 2 |
| 6345 | SCAT-MOD-5 | A100 0052 | NEW LONDON | 12 | 10 | L | 100 | 38 | 33 | 0 | - | 0 | - | 0 |

*P = Self-paced
L = Lock-step

C = Computer Managed Instruction
B = Both Self-paced and Lock-step

** As defined on p. 21

DATA FOR CLASS A1 AND A3 COURSES (continued)

| ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (#) | TOTAL ATTRITION (%) | STANDARD ATTRITION (%) | SETBACKS (#) | SETBACKS (%) | RMS COST CODE | TOTAL COURSE COST (000's) | COST PER GRADUATE | ACADEMIC ATTRITION COST (000's) | NONACADEMIC ATTRITION COST (000's) | TOTAL ATTRITION COST (000's) | MARGINAL COST** (000's) |
|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|------------------------|---------------------------|--------------|--------------|---------------|------------------------------|----------------------|---------------------------------------|--|------------------------------------|-------------------------------|
| 0 | - | 2 | 3 | 2 | 3 | 5 | 2 | 3 | 5CCB | 445 | 7951 | 0.0 | 0.0 | 0.0 | 0 |
| 18 | 12 | 3 | 2 | 24 | 13 | 5 | 16 | 9 | 5ABB | 532 | 3642 | 34.2 | 5.7 | 39.9 | 11.6 |
| 3 | 1 | 14 | 5 | 16 | 6 | 5 | 11 | 4 | 5BBB | 1402 | 5155 | 4.6 | 21.3 | 25.9 | 5.7 |
| 40 | 1 | 60 | 6 | 102 | 10 | 15 | 40 | 4 | 5CCC | 2121 | 2313 | 45.7 | 68.6 | 114.3 | 50.3 |
| 0 | - | 49 | 4 | 62 | 5 | 2 | 0 | - | 5BGB | 2980 | 2479 | 0.0 | 56.0 | 56.0 | 29.1 |
| 0 | - | 12 | 2 | 12 | 2 | 4 | 24 | 4 | 5CBA | 2136 | 3322 | 0.0 | 10.9 | 10.9 | 6.2 |
| 0 | - | 15 | 3 | 15 | 3 | 10 | 15 | 3 | 5BBA | 1630 | 2869 | 0.0 | 48.3 | 48.3 | 26.5 |
| 2 | 3 | 1 | 1 | 3 | 4 | 2 | 1 | 1 | 5SDH | 332 | 4197 | 12.5 | 6.3 | 18.8 | 5.8 |
| 0 | - | 0 | - | 13 | 1 | 2 | 0 | - | 5CEB | 1529 | 1197 | 0.0 | 0.0 | 0.0 | 0 |
| 12 | 1 | 12 | 1 | 12 | 1 | 1 | 0 | - | 5BBC | | | | | | |
| 0 | - | 0 | - | 0 | - | 3 | 1 | 3 | | | | | | | |
| 130 | 6 | 64 | 3 | 199 | 9 | 8 | 744 | 30 | 5EFB | 4443 | 2299 | 154.8 | 76.2 | 231.1 | 124.8 |
| 9 | 13 | 7 | 10 | 16 | 22 | 7 | 0 | - | 5FCC | 139 | 2446 | 28.8 | 22.4 | 51.1 | 17.4 |
| 41 | 11 | 4 | 1 | 45 | 12 | 13 | 176 | 40 | 5KGA | | | | | | |
| 0 | - | 9 | 1 | 9 | 1 | 5 | 53 | 6 | 5DBA | 2571 | 2921 | 0.0 | 57.1 | 57.1 | 32.0 |
| 10 | 1 | 10 | 1 | 20 | 2 | 5 | 92 | 9 | 5DBA | 2937 | 2966 | 46.0 | 46.0 | 92.0 | 51.5 |
| 0 | - | 0 | - | 0 | - | 3 | 3 | 13 | | | | | | | |
| 149 | 8 | 189 | 10 | 333 | 17 | 13 | 512 | 25 | 5ABA | 7840 | 4664 | 268.7 | 340.9 | 609.6 | 31.1 |
| 257 | 7 | 220 | 6 | 453 | 12 | 15 | 108 | 3 | 5DBB | 9693 | 2900 | 424.0 | 363.0 | 786.9 | 275.4 |
| 80 | 11 | 43 | 6 | 128 | 17 | 15 | 346 | 40 | 5BAA | 4624 | 7202 | - | - | - | |
| 0 | - | 4 | 2 | 4 | 2 | 5 | 2 | 1 | 5BDB | 897 | 4850 | 0.0 | 5.6 | 5.6 | 2.1 |
| 4 | 2 | 6 | 3 | 9 | 5 | 5 | 144 | 56 | 5QCG | 1385 | 8097 | 11.6 | 17.3 | 28.9 | 10.4 |
| 13 | 3 | 4 | 1 | 18 | 4 | 5 | 61 | 13 | 5EEB | 1115 | 2693 | 19.1 | 5.9 | 25.0 | 11.0 |
| 29 | 6 | 19 | 4 | 49 | 10 | 9 | 19 | 4 | 5SCE | 1488 | 3235 | 80.4 | 52.7 | 133.1 | 48.0 |
| 35 | 13 | 47 | 17 | 82 | 28 | 20 | 259 | 68 | 5VBF | 6976 | 16376 | 17.3 | 23.2 | 40.5 | 13.0 |
| 0 | - | 4 | 2 | 4 | 2 | 5 | 9 | 4 | 5ADC | 630 | 3042 | 0.0 | 7.0 | 7.0 | 3.0 |
| 2 | 1 | 8 | 4 | 10 | 5 | 7 | 12 | 6 | 5ADD | 587 | 3432 | 3.4 | 13.6 | 17.1 | 6.0 |
| 0 | - | 7 | 1 | 7 | 1 | 1 | 0 | - | 5SDE | 706 | 955 | 0.0 | 9.4 | 9.4 | 3.3 |
| 0 | - | 5 | 1 | 5 | 1 | 1 | 0 | - | 5SDG | 953 | 2085 | 0.0 | 11.7 | 11.7 | 4.0 |
| 0 | - | 0 | - | 0 | - | 1 | 0 | - | 5SDL | 118 | 1556 | 0.0 | 0.0 | 0.0 | 1.5 |
| 0 | - | 5 | 1 | 5 | 1 | 1 | 0 | - | 5SDK | 1027 | 2078 | 0.0 | 14.3 | 14.3 | 4.6 |
| 104 | 15 | 20 | 3 | 127 | 18 | 15 | 60 | 9 | 5DGD | 814 | 1461 | 107.7 | 20.7 | 128.4 | 69.3 |
| 5 | 1 | 5 | 1 | 10 | 2 | 4 | 16 | 3 | 5EFP | 523 | 1033 | 5.6 | 5.6 | 11.1 | 6.2 |
| 147 | 9 | 80 | 5 | 234 | 14 | 10 | 0 | - | 5BBB | 8257 | 5753 | 501.6 | 273.0 | 774.6 | 418.3 |
| 37 | 10 | 18 | 5 | 57 | 15 | 10 | 0 | - | 5BBB | 1993 | 6305 | 138.7 | 67.5 | 206.2 | 111.4 |
| 27 | 7 | 31 | 8 | 56 | 14 | 10 | 0 | - | 5BBB | 1971 | 5569 | 85.7 | 98.4 | 184.2 | 99.5 |
| 22 | 5 | 13 | 3 | 36 | 8 | 10 | 0 | - | 5BBB | 2311 | 5475 | 99.9 | 59.0 | 158.9 | 85.8 |

TABLE A-1. ATTRITION DATA FOR CLASS A1 AND A3

| CDP | SHORT TITLE | CIN | LOCATION | COURSE LENGTH (Days) | NUMBER OF CONVENINGS | TYPE COURSE* | MINIMUM ASVAB | INPUT | GRADUATES | ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) |
|------|-------------------|-----------|-------------|-------------------------|-------------------------|--------------|---------------|-------|-----------|---------------------------|---------------------------|------------------------------|------------------------------|
| 6083 | UT-A | A720 0012 | PT HUE | 79 | 7 | L | 150 | 62 | 56 | 0 | - | 2 | |
| 6093 | TM SUB/TORP TECH | A123 0127 | ORLANDO | 40 | 25 | L | 96 | 197 | 146 | 18 | 10 | 3 | |
| 6097 | EO-A | A730 0010 | PT HUE | 61 | 10 | L | 150 | 255 | 272 | 3 | 1 | 14 | |
| 6102 | PN-A | A500 0014 | MERIDIAN | 48 | 50 | P | 110 | 1023 | 917 | 40 | 4 | 60 | |
| 6106 | HT-A2 | A700 0010 | SAN DIEGO | 60 | 252 | L | 156 | 1219 | 1202 | 0 | - | 49 | |
| 6108 | FT-A2 | A113 0019 | G. LAKES | 96 | 25 | L | 225 | 509 | 643 | 0 | - | 12 | |
| 6115 | GM-A | A041 0010 | G. LAKES | 82 | 50 | L | 163 | 422 | 568 | 0 | - | 15 | |
| 6118 | SQ 23 PAIR OP-BAS | A130 0097 | SAN DIEGO | 54 | 8 | L | 225 | 73 | 79 | 2 | 3 | 1 | |
| 6119 | HT-A1 | A780 0035 | SAN FRAN | 22 | 50 | P | 156 | 1275 | 1277 | 0 | - | 0 | |
| 6120 | HT-A1 | A780 0035 | PHIL | 22 | 50 | L | 156 | 1178 | 1179 | 12 | 1 | 12 | |
| 6122 | CTI-A2-HEBREW | A232 0041 | GOODFELLOW | 56 | 4 | L | 206 | 10 | 8 | - | - | - | |
| 6123 | CTI-A2-ARABIC | A232 0042 | GOODFELLOW | 91 | 7 | L | 206 | 33 | 30 | 0 | - | 0 | |
| 6125 | MS-A | A800 0013 | SAN DIEGO | 54 | 73 | L | 100 | 2285 | 1932 | 130 | 6 | 64 | |
| 6126 | QRTR-MSTR-BASE | A772 0010 | NEW LONDON | 33 | 6 | L | 101 | 73 | 57 | 9 | 13 | 7 | 1 |
| 6131 | DS-A | A150 0025 | MARE ISLAND | 180 | 25 | L | 225 | 353 | 352 | 41 | 11 | 4 | |
| 6135 | ET A-3R | A104 0010 | G. LAKES | 26 | 50 | L | 225 | 834 | 880 | 0 | - | 9 | |
| 6137 | ET-A-3N | A102 0010 | G. LAKES | 33 | 50 | L | 225 | 967 | 990 | 10 | 1 | 10 | |
| 6140 | CTI-A2-FRENCH | A232 0040 | GOODFELLOW | 28 | 8 | L | 206 | 22 | 22 | 0 | - | 0 | |
| 6142 | OSA | A221 0011 | G. LAKES | 96 | 50 | L | 110 | 1906 | 1681 | 149 | 8 | 189 | 1 |
| 6144 | RMA | A202 0014 | SAN DIEGO | 42 | 252 | P | 100 | 3756 | 3342 | 257 | 7 | 220 | |
| 6146 | PLRS-POS-ELECT-A | A121 0142 | DAM NECK | 117 | 50 | L | 225 | 740 | 642 | 80 | 11 | 43 | |
| 6149 | CMA | A610 0022 | PT HUE | 94 | 9 | L | 150 | 198 | 185 | 0 | - | 4 | |
| 6161 | CTM-A | A102 0109 | CORRY | 96 | 50 | P | 225 | 198 | 171 | 4 | 2 | 6 | |
| 6167 | DPA | A531 0016 | SAN DIEGO | 54 | 25 | L | 110 | 460 | 414 | 13 | 3 | 4 | |
| 6172 | STS-CLASS A | A130 0029 | SAN DIEGO | 40 | 34 | L | 225 | 470 | 460 | 29 | 6 | 19 | |
| 6178 | EW-OP-MAINT/TECH | A102 0154 | CORRY | 361 | 50 | L | 110 | 77 | 426 | 35 | 13 | 47 | 1 |
| 6182 | ASH-A1 | C602 2023 | MEMPHIS | 67 | 25 | L | 156 | 211 | 207 | 0 | - | 4 | |
| 6183 | ASM-A1 | C602 2024 | MEMPHIS | 65 | 25 | L | 156 | 202 | 171 | 2 | 1 | 8 | |
| | | | | | | | | | 17 | | | | |
| 6194 | MK-114-OP-BAS | A130 0083 | SAN DIEGO | 12 | AR | L | 225 | 699 | 739 | 0 | - | 7 | |
| 6195 | SQS-DG-OP-BAS | A130 0084 | SAN DIEGO | 19 | AR | L | 225 | 447 | 457 | 0 | - | 5 | |
| 6196 | SQS-35V-38-OPBAS | A130 0085 | SAN DIEGO | 12 | 11 | L | 225 | 67 | 76 | 0 | - | 0 | |
| 6198 | SQS-26-CX/AXR | A130 0086 | SAN DIEGO | 19 | AR | L | 225 | 483 | 494 | 0 | - | 5 | |
| 6206 | SH-A | A823 0012 | NORFOLK | 26 | 25 | L | 100 | 724 | 557 | 104 | 15 | 20 | |
| 6209 | SH-A | A823 0012 | SAN DIEGO | 26 | 25 | L | 100 | 530 | 506 | 5 | 1 | 5 | |
| 6239 | AVA-AT-A1 | C100 2013 | MEMPHIS | 102 | 252 | C | 225 | 1679 | 1435 | 147 | 9 | 80 | |
| 6240 | AVA-AQ-A1 | C100 2013 | MEMPHIS | 102 | 252 | C | 225 | 389 | 316 | 37 | 10 | 18 | |
| 6241 | AVA-AX-A1 | C100 2013 | MEMPHIS | 102 | 252 | C | 225 | 389 | 354 | 27 | 7 | 31 | |
| 6242 | AVA-TD-A1 | C100 2013 | MEMPHIS | 71 | 252 | C | 225 | 451 | 422 | 22 | 5 | 13 | |

*P = Self-paced
L = Lock-step

C = Computer Managed Instruction
B = Both Self-paced and Lock-step

** As defined on p. 21

TRITION DATA FOR CLA S A1 AND A3 COURSES

| ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) | NONACADEMIC ATTRITION (%) | TOTAL ATTRITION (#) | TOTAL ATTRITION (%) | STANDARD ATTRITION (%) | SETBACKS (#) | SETBACKS (%) | RMS COST CODE | TOTAL COURSE COST (000's) | COST PER GRADUATE | ACADEMIC ATTRITION COST (000's) | NONACADEMIC ATTRITION COST (000's) | TOTAL ATTRITION COST (000's) | MARGINAL COST** (000's) |
|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|------------------------|---------------------------|--------------|--------------|---------------|------------------------------|----------------------|---------------------------------------|--|------------------------------------|-------------------------------|
| 424 | 14 | 235 | 8 | 660 | 21 | - | - | - | - | 718 | 2163 | 27.5 | 8.3 | 35.8 | 13.6 |
| 10 | 3 | 3 | 1 | 14 | 4 | 15 | 59 | 16 | 5PGB | | | | | | |
| 0 | - | 2 | 3 | 2 | 3 | 8 | 0 | 0 | 5DEC | | | | | | |
| 0 | - | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 5PDK | 290 | 3668 | 0.0 | 3.5 | 3.5 | 1.1 |
| 2 | 4 | 0 | - | 2 | 4 | 5 | 29 | 47 | 5SDN | 422 | 2851 | 0.0 | 5.6 | 5.6 | 2.0 |
| 3 | 4 | 0 | - | 3 | 4 | 5 | 34 | 37 | 5QED | 103 | 2011 | 2.6 | 0.0 | 2.6 | 1.0 |
| 0 | - | 2 | 1 | 2 | 1 | 5 | 8 | 3 | 5QES | 511 | 7194 | 17.4 | 0.0 | 17.4 | 8.0 |
| 7 | 1 | 23 | 3 | 30 | 4 | 10 | 103 | 13 | 5AGB | 501 | 2043 | 0.0 | 2.4 | 2.4 | |
| 0 | - | 0 | - | 0 | - | 0 | 11 | 20 | 5ACF | 1364 | 1918 | 6.5 | 21.3 | 27.8 | 11.1 |
| 8 | 4 | 10 | 5 | 17 | 9 | 20 | - | - | - | | | | | | |
| 19 | 8 | 12 | 5 | 29 | 12 | 20 | - | - | 5FCB | | | | | | |
| 72 | 12 | 23 | 4 | 92 | 15 | 10 | 72 | 12 | 5FCB | 1356 | 2562 | 86.6 | 27.6 | 114.2 | 40.0 |
| 42 | 11 | 7 | 2 | 50 | 13 | 10 | 30 | 8 | 5DBP | 567 | 1649 | 43.7 | 7.3 | 51.0 | 28.0 |
| 17 | 3 | 43 | 7 | 58 | 10 | 10 | 40 | 7 | 5CBC | 1282 | 2489 | 23.1 | 54.4 | 77.6 | 40.3 |
| 43 | 12 | 21 | 6 | 66 | 18 | 10 | 21 | 6 | 5DBR | 533 | 1720 | 45.1 | 22.0 | 67.2 | 35.6 |
| 48 | 4 | 24 | 2 | 72 | 6 | 10 | 60 | 5 | 5SDB | 3698 | 3152 | 147.2 | 73.6 | 220.8 | 77.2 |
| 16 | 10 | 9 | 6 | 25 | 15 | 10 | 86 | 44 | 5QCF | 590 | 4278 | 46.2 | 26.0 | 72.2 | 23.8 |
| 18 | 9 | 12 | 6 | 29 | 14 | 5 | 6 | 3 | - | | | | | | |
| 74 | 8 | 45 | 5 | 123 | 13 | 14 | 197 | 20 | 5CBA | 3284 | 3836 | 108.0 | 65.7 | 173.7 | 99.0 |
| 9 | 6 | 3 | 2 | 11 | 8 | 5 | 7 | 5 | 5ABB | 424 | 3448 | 10.0 | 3.3 | 13.4 | 3.9 |
| 19 | 9 | 2 | 1 | 21 | 10 | 5 | 23 | 11 | 5ABB | 609 | 3170 | 28.1 | 3.0 | 31.1 | 9.0 |
| 5 | 5 | 8 | 7 | 14 | 12 | 12 | 37 | 30 | 5CBB | 689 | 7027 | 25.6 | 41.0 | 66.6 | 18.0 |
| 3 | 4 | 4 | 5 | 7 | 9 | 10 | 0 | - | 5EBA | 588 | 7352 | 8.0 | 10.7 | 18.7 | 6.9 |
| 6 | 9 | 7 | 11 | 13 | 19 | 10 | 0 | - | 5ECA | 389 | 6832 | 16.8 | 19.6 | 36.3 | 14.2 |
| 32 | 8 | 16 | 4 | 45 | 11 | 15 | 283 | 54 | 5QCB | 2468 | 7050 | 98.8 | 49.4 | 148.1 | 47.4 |
| 89 | 7 | 63 | 5 | 157 | 12 | 19 | 50 | 4 | 5SCD | 2526 | 2255 | 98.4 | 69.6 | 168.0 | 77.3 |
| 29 | 2 | 43 | 3 | 73 | 5 | 8 | 88 | 6 | 5SBB | 2813 | 2035 | 31.8 | 47.1 | 78.9 | 36.3 |
| 10 | 4 | 10 | 4 | 20 | 8 | 8 | 15 | 6 | 5SBC | 615 | 2675 | 10.8 | 10.8 | 21.6 | 9.7 |
| 0 | - | 0 | - | 0 | - | 1 | 0 | - | - | | | | | | |
| 53 | 8 | 26 | 4 | 80 | 12 | 22 | 102 | 15 | 5KBB | 4628 | 7738 | 285.6 | 140.1 | 425.7 | 200.1 |
| 44 | 8 | 16 | 3 | 61 | 11 | 14 | 44 | 8 | 5BBB | 1665 | 3364 | 47.0 | 17.1 | 64.1 | 34.0 |
| 0 | - | 19 | 1 | 19 | 1 | 5 | 156 | 8 | 5GBA | 5337 | 2847 | 0.0 | 55.3 | 55.3 | 28.8 |
| 10 | 1 | 20 | 2 | 31 | 3 | 5 | 140 | 13 | 5CDB | 2349 | 2382 | 8.7 | 17.4 | 26.2 | 14.4 |
| 9 | 16 | 3 | 6 | 12 | 21 | 14 | 0 | - | 5BHD | 331 | 8497 | 9.8 | 3.3 | 13.1 | 5.4 |
| 3 | 6 | 1 | 2 | 4 | 8 | 10 | 0 | - | 5BHB | 270 | 5630 | 4.8 | 1.6 | 6.3 | 2.4 |
| 0 | - | 2 | 14 | 2 | 14 | 7 | 0 | - | 5ACB | 82 | 6839 | 0.0 | 0.0 | 0.0 | 0 |
| 0 | - | 3 | 4 | 3 | 4 | 4 | 2 | 2 | 5CBB | 348 | 4521 | 0.0 | 5.7 | 5.7 | 1.3 |
| 0 | - | 0 | - | 0 | - | 5 | 4 | 2 | 5ABB | 862 | 3882 | 0.0 | 0.0 | 0.0 | 0 |
| 1 | 1 | 12 | 8 | 14 | 9 | 4 | 1 | 1 | 5AEB | 474 | 331 | 0.6 | 6.7 | 7.3 | 2.5 |

TABLE A-1. ATTRITION DATA FOR CLASS A1 A1

| CDP | SHORT TITLE | CIN | LOCATION | COURSE LENGTH (Days) | NUMBER OF CONVENINGS | TYPE COURSE* | MINIMUM ASVAB | INPUT | GRADUATES | ACADEMIC ATTRITION (#) | ACADEMIC ATTRITION (%) | NONACADEMIC ATTRITION (#) |
|------|-------------------|-----------|---------------|-------------------------|-------------------------|--------------|---------------|-------|-----------|---------------------------|---------------------------|------------------------------|
| 130E | NUC PWR | A661 0010 | ORLANDO | 170 | 8 | - | 0 | 3806 | 1822 | 424 | 14 | 235 |
| 340S | AVR-A1 | C100 2014 | MEMPHIS | 35 | 50 | L | 225 | 352 | 332 | 10 | 3 | 3 |
| 348X | SQO 23 PAIR OPBAS | A130 0097 | CHAS | 26 | 4 | L | 0 | - | - | - | - | - |
| 532R | MALRE - A | C680 2015 | LAKEHURST | 40 | 7 | L | 0 | 74 | 79 | 0 | - | 2 |
| 541U | SQS 53 OPBAS | A130 0103 | SAN DIEGO | 19 | AR | L | 225 | 161 | 148 | 0 | - | 2 |
| 2053 | CTT-FLR-11/15 OPS | A231 0024 | CORRY | 40 | 51 | P | 100 | 45 | 51 | 2 | 4 | 0 |
| 3197 | CTT-ELINT OP | A231 0028 | CORRY | 68 | 25 | P | 100 | 77 | 71 | 3 | 4 | 0 |
| 3522 | AVCC - A1 | C780 2010 | MEMPHIS | 28 | 25 | L | 0 | 251 | 245 | 0 | - | 2 |
| 3585 | BASHEL - A1 | C600 2010 | MEMPHIS | 42 | 50 | L | 0 | 769 | 711 | 7 | 1 | 23 |
| 4084 | CTT CLSC WIZ OP | A231 0038 | WINTER HARBOR | 98 | 3 | L | 100 | 58 | 44 | 0 | - | 0 |
| 5261 | SCAT-MOD-2 | A100 0036 | NEW LONDON | 26 | 10 | L | 0 | 185 | 186 | 8 | 4 | 10 |
| 5309 | SCAT-MOD-1 | A100 0035 | NEW LONDON | 26 | 10 | L | 0 | 231 | 222 | 19 | 8 | 12 |
| 6001 | QMA | A061 0012 | ORLANDO | 40 | 24 | L | 101 | 605 | 529 | 72 | 12 | 23 |
| 6002 | QMA | A061 0012 | SAN DIEGO | 40 | 15 | L | 101 | 383 | 344 | 42 | 11 | 7 |
| 6005 | SM-A | A061 0011 | ORLANDO | 40 | 24 | L | 105 | 588 | 515 | 17 | 3 | 40 |
| 6006 | SM-A | A061 0011 | SAN DIEGO | 40 | 15 | L | 105 | 359 | 310 | 43 | 12 | 21 |
| 6015 | SURF-ST-CLASS A | A130 0037 | SAN DIEGO | 40 | 65 | L | 225 | 1178 | 1173 | 48 | 4 | 24 |
| 6020 | CTA-A | A510 0015 | CORRY | 57 | 50 | P | 163 | 166 | 138 | 16 | 10 | 9 |
| 6025 | GMT-A | A644 0014 | TRAGRUPAC | 61 | 12 | L | 156 | 224 | 165 | 18 | 9 | 12 |
| 6027 | FTA-A | A113 0010 | G. LAKES | 75 | 50 | L | 225 | 915 | 856 | 74 | 8 | 45 |
| 6034 | TM-SS-TORP-OP | A123 0127 | ORLANDO | 54 | 25 | L | 96 | 152 | 123 | 9 | 6 | 3 |
| 6036 | TM-OP-A/S TORP | A123 0127 | ORLANDO | 40 | 25 | L | 96 | 201 | 192 | 19 | 9 | 2 |
| 6041 | MN-A | A647 0016 | CHAS | 96 | 12 | L | 156 | 114 | 98 | 5 | 5 | 8 |
| 6046 | IM-A | A670 0010 | G. LAKES | 131 | 50 | P | 163 | 78 | 80 | 3 | 4 | 4 |
| 6047 | OM-A | A670 0018 | G. LAKES | 121 | 50 | P | 163 | 68 | 57 | 6 | 9 | 7 |
| 6053 | CTO-A | A580 0016 | CORRY | 117 | 50 | P | 105 | 415 | 350 | 32 | 8 | 16 |
| 6057 | YN-A | A510 0012 | MERIDIAN | 48 | 50 | P | 163 | 1344 | 1120 | 89 | 7 | 63 |
| 6059 | SK CLASS A | A551 0014 | MERIDIAN | 47 | 50 | L | 105 | 1463 | 1382 | 29 | 2 | 43 |
| 6061 | DK-A | A542 0011 | MERIDIAN | 54 | 12 | L | 105 | 257 | 230 | 10 | 4 | 10 |
| 6063 | INFO SPEC JO A1 | A570 0011 | FT. HARRISON | 68 | 14 | L | 163 | 53 | 66 | 0 | - | 0 |
| 6065 | MUSIC BASIC | A450 0010 | LITTLE CREEK | 166 | 34 | L | 0 | 663 | 598 | 53 | 8 | 26 |
| 6068 | MR/A | A702 0019 | SAN DIEGO | 80 | 25 | L | 156 | 554 | 495 | 44 | 8 | 16 |
| 6070 | EM/A | A662 0016 | G. LAKES | 59 | 50 | L | 156 | 1868 | 1874 | 0 | - | 19 |
| 6073 | IC-A | A623 0012 | SAN DIEGO | 61 | 50 | L | 156 | 1028 | 986 | 10 | 1 | 20 |
| 6076 | PM-A | A790 0012 | SAN DIEGO | 138 | 5 | L | 156 | 65 | 39 | 9 | 16 | 3 |
| 6077 | ML-A | A790 0010 | SAN DIEGO | 95 | 3 | L | 156 | 55 | 48 | 3 | 6 | 1 |
| 6078 | EA-A | A412 0010 | PT HUE | 81 | 2 | L | 105 | 14 | 12 | 0 | - | 2 |
| 6079 | CE-A | A721 0018 | PT HUE | 58 | 10 | L | 156 | 86 | 77 | 0 | - | 3 |
| 6081 | BU-A | A710 0010 | PT HUE | 66 | 9 | L | 150 | 196 | 222 | 0 | - | 0 |
| 6082 | SW-A | A711 0015 | PT HUE | 61 | 6 | L | 150 | 147 | 143 | 1 | 1 | 12 |

*P = Self-paced
L = Lock-step

C = Computer Managed Instruction
D = Both Self-paced and Lock-step

** As defined on p. 21

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APPENDIX A

ATTRITION DATA FOR CLASS A1 AND A3 COURSES

TABLE B-1. QUALIFIED AND UNQUALIFIED /

| CDP | SHORT TITLE | CIN | QUALIFIED INPUT | | | UNQUALIFIED INPUT | | |
|------|-------------------|-----------|-----------------|--------|------------------|-------------------|------------------|--------|
| | | | TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER |
| | | | | | | | | |
| | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| | | | 2÷1 | | | 4÷1 | | |
| 6241 | AVA-AX-A1 | C100 2013 | 320 | 287 | 89.7 | 33 | 10.3 | 2 |
| 6242 | AVA-TD-A1 | C100 2013 | 393 | 306 | 77.9 | 87 | 22.1 | 2 |
| 6244 | AFTA-AT-A1 | C100 2010 | 606 | 533 | 88.0 | 73 | 12.0 | 3 |
| 6245 | AFTA-AQ-A1 | C100 2010 | 91 | 83 | 91.2 | 8 | 8.8 | 9 |
| 6246 | AFTA-AX-A1 | C100 2010 | 127 | 107 | 84.3 | 20 | 15.7 | 6 |
| 6260 | BT-A | A651 0010 | 2994 | 2330 | 77.8 | 664 | 22.2 | 2 |
| 6261 | EN-A | A652 0018 | 1160 | 967 | 83.4 | 193 | 16.6 | 0 |
| 6262 | MM-A | A651 0015 | 4617 | 3786 | 82.0 | 831 | 18.0 | 1 |
| 6263 | ET-A1-ETN | A100 0012 | 1321 | 1208 | 91.4 | 113 | 8.6 | 8 |
| 6264 | ET-A1-CTM | A100 0012 | 202 | 183 | 90.6 | 19 | 9.4 | 2 |
| 6265 | ET-A1-ETR | A100 0012 | 1401 | 1287 | 91.9 | 114 | 8.1 | 7 |
| 6266 | ET-A2-ETN | A100 0014 | 903 | 821 | 90.9 | 82 | 9.1 | 3 |
| 6267 | ET-A2-CTN | A100 0014 | 196 | 177 | 90.3 | 19 | 9.7 | 9 |
| 6278 | ET-A2-ETR | A100 0014 | 851 | 807 | 94.8 | 44 | 5.2 | 2 |
| 6278 | AC-A1 | C222 2010 | 463 | 393 | 84.9 | 70 | 15.1 | 8 |
| 6286 | BU-A | A710 0010 | 147 | 129 | 87.8 | 18 | 12.2 | 1 |
| 6287 | EA-A | A412 0010 | 22 | 19 | 86.4 | 3 | 13.6 | 0 |
| 6288 | SW-A | A711 0015 | 49 | 43 | 87.8 | 6 | 12.2 | 0 |
| 6289 | CE-A | A721 0018 | 114 | 103 | 90.4 | 11 | 9.6 | 0 |
| 6290 | UT-A | A720 0012 | 99 | 84 | 84.8 | 15 | 15.2 | 0 |
| 6291 | CM-A | A610 0022 | 115 | 91 | 79.1 | 24 | 20.9 | 1 |
| 6292 | EO-A | A730 0010 | 181 | 162 | 89.5 | 19 | 10.5 | 0 |
| 6299 | EW-OP-TECH | A102 0155 | 46 | 39 | 84.8 | 7 | 15.2 | 1 |
| 6300 | PC-A | A515 0018 | 197 | 149 | 75.6 | 48 | 24.4 | 0 |
| 6301 | CTR-A | A231 0044 | 429 | 315 | 73.4 | 114 | 26.6 | 8 |
| 6302 | CTT-A-PREP | A231 0023 | 341 | 314 | 92.1 | 27 | 7.9 | 7 |
| 6319 | CTT/ICR/NON MORSE | A231 0047 | 15 | 13 | 86.7 | 2 | 13.3 | 0 |
| 6320 | CTT/SPE/NON MORSE | A231 0046 | 123 | 109 | 88.6 | 14 | 11.4 | 3 |
| 6321 | CTI-A2-RUSSIAN | A232 0021 | 110 | 85 | 77.3 | 25 | 22.7 | 3 |
| 6322 | CTI-A2-CHI-MAN | A232 0022 | 12 | 10 | 83.3 | 2 | 16.7 | 0 |
| 6323 | CTI-A2-VIETNAM | A232 0023 | 16 | 11 | 68.7 | 5 | 31.3 | C |
| 6328 | CTI-A2-KOREAN | A232 0028 | 13 | 9 | 69.2 | 4 | 30.8 | C |
| 6329 | CTI-A2-COMMON BL | A232 0029 | 3 | 1 | 33.3 | 2 | 66.7 | C |
| 6330 | CTI-A2-GERMAN | A232 0030 | 4 | 2 | 50.0 | 2 | 50.0 | C |
| 6331 | CTI-A2-SPANISH | A232 0031 | 18 | 6 | 33.3 | 12 | 66.7 | 1 |
| 6333 | CTI-A2-SERB-CRO | A232 0033 | - | - | - | - | - | - |
| 6337 | UWFT-CLASS A | A130 0138 | 109 | 96 | 88.1 | 13 | 11.9 | 4 |
| 6341 | OT-A | A210 0011 | 132 | 107 | 81.1 | 25 | 18.9 | 1 |
| 6343 | SCAT-MODS 3-6 | A101 0134 | 29 | 28 | 96.6 | 1 | 3.4 | C |
| 6344 | SCAT MOD 6 | A100 0053 | 31 | 28 | 90.3 | 3 | 9.7 | 1 |

*Significant Chi-square = 3.841

1. ACADEMIC ATTRITION (continued)

| UNQUALIFIED ATTRITION | | ACADEMIC ATTRITION | | QUALIFIED ATTRITES | | UNQUALIFIED ATTRITES | | CHI-SQUARE | |
|-----------------------|--------|--------------------|--------|--------------------|----------------------|----------------------|--------------------|----------------------|--------|
| OF TOTAL INPUT | NUMBER | OF TOTAL INPUT | NUMBER | OF QUAL INPUT | OF ACADEMIC ATTRITES | NUMBER | OF UNQUAL ATTRITES | OF ACADEMIC ATTRITES | |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 4:1 | | 6:1 | | 8:1 | 8:1 | | 11:1 | 11:6 | |
| 10.3 | 22 | 6.9 | 14 | 4.9 | 63.6 | 8 | 24.2 | 36.4 | 14.44* |
| 22.1 | 23 | 5.9 | 12 | 3.9 | 52.2 | 11 | 12.6 | 47.8 | 7.84* |
| 12.0 | 32 | 5.3 | 23 | 4.3 | 71.9 | 9 | 12.3 | 28.1 | 6.72* |
| 8.8 | 9 | 9.9 | 7 | 8.4 | 77.8 | 2 | 25.0 | 22.2 | 0.77 |
| 15.7 | 6 | 4.7 | 6 | 5.6 | 100.0 | 0 | 0 | 0 | 0.26 |
| 22.2 | 21 | 0.7 | 8 | 0.3 | 38.1 | 13 | 2.0 | 61.9 | 17.09* |
| 16.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 18.0 | 12 | 0.3 | 6 | 0.2 | 50.0 | 6 | 0.7 | 50.0 | 6.32* |
| 8.6 | 89 | 6.7 | 77 | 6.4 | 86.5 | 12 | 10.7 | 13.5 | 2.33 |
| 9.4 | 23 | 11.4 | 20 | 10.9 | 87.0 | 3 | 15.8 | 13.0 | 6.53* |
| 8.1 | 75 | 5.4 | 57 | 4.4 | 76.0 | 18 | 15.8 | 24.0 | 24.48* |
| 9.1 | 32 | 3.5 | 28 | 3.4 | 87.5 | 4 | 4.8 | 12.5 | 0.14 |
| 9.7 | 9 | 4.6 | 8 | 4.5 | 88.9 | 1 | 5.3 | 11.1 | 0.18 |
| 5.2 | 20 | 2.4 | 18 | 2.2 | 90.0 | 2 | 4.5 | 10.0 | 0.23 |
| 15.1 | 87 | 18.8 | 62 | 15.8 | 71.3 | 25 | 35.7 | 28.7 | 14.20* |
| 12.2 | 1 | 0.7 | 0 | 0 | 0 | 1 | 5.6 | 100.0 | 1.34 |
| 13.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 12.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 9.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 15.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 20.9 | 1 | 0.9 | 1 | 1.1 | 100.0 | 0 | 0 | 0 | 0.52 |
| 10.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 15.2 | 16 | 34.8 | 11 | 28.2 | 68.8 | 5 | 71.4 | 31.3 | 3.17 |
| 24.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 26.6 | 81 | 18.9 | 48 | 15.2 | 59.3 | 33 | 28.9 | 40.7 | 9.40* |
| 7.9 | 70 | 20.5 | 59 | 18.8 | 84.3 | 11 | 40.7 | 15.7 | 6.06* |
| 13.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 11.4 | 3 | 2.4 | 2 | 1.8 | 66.7 | 1 | 7.1 | 33.3 | 8.51* |
| 22.7 | 3 | 2.7 | 3 | 3.5 | 100.0 | 0 | 0 | 0 | 0.06 |
| 16.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 31.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 30.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 66.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 50.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 66.7 | 1 | 5.6 | 1 | 16.7 | 100.0 | 0 | 0 | 0 | 0.04 |
| - | - | - | - | - | - | - | - | - | - |
| 11.9 | 4 | 3.7 | 4 | 4.2 | 100.0 | 0 | 0 | 0 | 0.03 |
| 18.9 | 16 | 12.1 | 12 | 11.2 | 75.0 | 4 | 16.0 | 25.0 | 0.1 |
| 3.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 9.7 | 1 | 3.2 | 1 | 3.6 | 100.0 | 0 | 0 | 0 | 1.92 |

TABLE B-1. QUALIFIED AND UNQUALIFIED

| CDP | SHORT TITLE | CIN | QUALIFIED INPUT | | | UNQUALIFIED INPUT | | |
|------|-----------------|-----------|-----------------|--------|------------------|-------------------|------------------|--------|
| | | | TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| | | | 2+1 | | | 4+1 | | |
| 6345 | SCAT-MOD-5 | A100 0052 | 31 | 26 | 83.9 | 5 | 16.1 | 0 |
| 6346 | SCAT-MOD-4 | A100 0051 | 33 | 29 | 87.9 | 4 | 12.1 | 2 |
| 6347 | SCAT-MOD-3 | A100 0050 | 49 | 42 | 85.7 | 7 | 14.3 | 0 |
| 6376 | FTG-A2 | A113 0019 | 288 | 240 | 83.3 | 48 | 16.7 | 3 |
| 6377 | FTG-A1 | A113 0010 | 673 | 592 | 88.0 | 81 | 12.0 | 72 |
| 6378 | GMT ASROC A | A041 0010 | 90 | 55 | 61.1 | 35 | 38.9 | 0 |
| 6380 | RM-A SEA | A202 0026 | 1564 | 1369 | 87.5 | 195 | 12.5 | 3 |
| 6400 | GMG A | A041 0010 | 942 | 617 | 65.5 | 325 | 34.5 | 1 |
| 6401 | BQQ-2-BAS-OP | A130 0189 | 94 | 86 | 91.5 | 8 | 8.5 | 1 |
| 6402 | OA-1283 BAS OP | A130 0188 | 310 | 275 | 88.7 | 35 | 11.3 | 0 |
| 6473 | AG-A1 | C420 2010 | 76 | 72 | 94.7 | 4 | 5.3 | 1 |
| 6501 | ADJ-A1 | C601 2010 | 1730 | 1503 | 86.9 | 227 | 13.1 | 88 |
| 6506 | AO-A1 | C646 2010 | 1202 | 1023 | 85.1 | 179 | 14.9 | 28 |
| 6512 | ABF-A1 | C821 2010 | 378 | 320 | 84.7 | 58 | 15.3 | 6 |
| 6513 | ABE-A1 | C680 2012 | 330 | 283 | 85.8 | 47 | 14.2 | 22 |
| 6515 | AE-A1 | C602 2012 | 1088 | 930 | 85.5 | 158 | 14.5 | 20 |
| 6516 | AME-A1 | C602 2015 | 478 | 416 | 87.0 | 62 | 13.0 | 7 |
| 6517 | AMH-A1 | C602 2017 | 857 | 745 | 86.9 | 112 | 13.1 | 5 |
| 6518 | AMS-A1 | C603 2010 | 1368 | 1194 | 87.3 | 174 | 12.7 | 10 |
| 6519 | PR-BASIC | C602 2010 | 382 | 312 | 81.7 | 70 | 18.3 | 6 |
| 6520 | AG-A1 | C420 2010 | 149 | 132 | 88.6 | 17 | 11.4 | 6 |
| 6521 | TD-A1 | C191 2010 | 372 | 285 | 76.6 | 87 | 23.4 | 2 |
| 6522 | AK-A | C551 2010 | 410 | 336 | 82.0 | 74 | 18.0 | 4 |
| 6523 | PH-LEVEL 1 | C400 2010 | 264 | 236 | 89.4 | 28 | 10.6 | 12 |
| 6527 | ABH-A1 | C822 2010 | 404 | 328 | 81.2 | 76 | 18.8 | 2 |
| 6528 | AZ-A1 | C516 2010 | 366 | 269 | 73.5 | 97 | 26.5 | 8 |
| 6529 | IS-A | A242 0010 | 236 | 199 | 84.3 | 37 | 15.7 | 26 |
| 6530 | ASE-A1 | C602 2019 | 112 | 96 | 85.7 | 16 | 14.3 | 0 |
| 6536 | TM-AS-TORP-TECH | A123 0127 | 71 | 63 | 88.7 | 8 | 11.3 | 12 |
| 6537 | AW-A1 | C210 2010 | 458 | 397 | 86.7 | 61 | 13.3 | 53 |

*Significant Chi-square = 3.841

QUALIFIED AND UNQUALIFIED ATTRITION (continued)

| UNQUALIFIED INPUT | | ACADEMIC ATTRITION | | QUALIFIED ATTRITES | | UNQUALIFIED ATTRITES | | | |
|-------------------|--------|--------------------|--------|--------------------|------------------------|----------------------|-------------------|------------------------|------------|
| % OF TOTAL INPUT | NUMBER | % OF TOTAL INPUT | NUMBER | % OF QUAL INPUT | % OF ACADEMIC ATTRITES | NUMBER | % OF UNQUAL INPUT | % OF ACADEMIC ATTRITES | CHI-SQUARE |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 4±1 | | 6±1 | | 8±1 | 8±6 | | 11±1 | 11±6 | |
| 16.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12.1 | 2 | 6.1 | 1 | 3.4 | 50.0 | 1 | 25.0 | 50.0 | 0.3 |
| 14.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 16.7 | 3 | 1.0 | 2 | 0.8 | 66.7 | 1 | 2.1 | 33.3 | 0 |
| 12.0 | 72 | 10.7 | 55 | 9.3 | 76.4 | 17 | 21.0 | 23.6 | 9.02* |
| 38.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 12.5 | 3 | 0.2 | 1 | 7.3 | 33.3 | 2 | 1.0 | 66.7 | 3.88* |
| 34.5 | 1 | 0.1 | 0 | 0 | 0 | 1 | 0.3 | 100.0 | 0.11 |
| 8.5 | 1 | 1.1 | 1 | 1.2 | 100.0 | 0 | 0 | 0 | 2.23 |
| 11.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 5.3 | 1 | 1.3 | 1 | 1.4 | 100.0 | 0 | 0 | 0 | 4.07* |
| 13.1 | 88 | 5.1 | 69 | 4.6 | 78.4 | 19 | 8.4 | 21.6 | 5.08* |
| 14.9 | 28 | 2.3 | 22 | 2.2 | 78.6 | 6 | 3.4 | 21.4 | 0.51 |
| 15.3 | 6 | 1.6 | 5 | 1.6 | 83.3 | 1 | 1.7 | 16.7 | 0.23 |
| 14.2 | 22 | 6.7 | 14 | 4.9 | 63.6 | 8 | 17.0 | 36.4 | 7.60* |
| 14.5 | 20 | 1.8 | 10 | 1.1 | 50.0 | 10 | 6.3 | 50.0 | 17.85* |
| 13.0 | 7 | 1.5 | 4 | 1.0 | 57.1 | 3 | 4.8 | 42.9 | 3.26 |
| 13.1 | 5 | 0.6 | 3 | 0 | 60.0 | 2 | 1.8 | 40.0 | 1.27 |
| 12.7 | 10 | 0.7 | 8 | 1.0 | 80.0 | 2 | 1.1 | 20.0 | 4.72* |
| 18.3 | 6 | 1.6 | 4 | 1.3 | 66.7 | 2 | 2.9 | 33.3 | 0.18 |
| 11.4 | 6 | 4.0 | 4 | 3.0 | 66.7 | 2 | 11.8 | 33.3 | 1.14 |
| 23.4 | 2 | 0.5 | 1 | 0.4 | 50.0 | 1 | 1.1 | 50.0 | 2.92 |
| 18.0 | 4 | 1.0 | 2 | 1.0 | 50.0 | 2 | 2.7 | 50.0 | 1.03 |
| 10.6 | 12 | 4.5 | 8 | 3.4 | 66.7 | 4 | 14.3 | 33.3 | 4.57* |
| 18.8 | 2 | 0.5 | 1 | 0.3 | 50.0 | 1 | 1.3 | 50.0 | 0.05 |
| 26.5 | 8 | 2.2 | 3 | 1.1 | 37.5 | 5 | 5.2 | 62.5 | 3.72 |
| 15.7 | 26 | 11.0 | 16 | 8.0 | 61.5 | 10 | 27.0 | 38.5 | 9.62* |
| 14.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 11.3 | 12 | 16.9 | 11 | 17.5 | 91.7 | 1 | 12.5 | 8.3 | 0.73 |
| 13.3 | 53 | 11.6 | 34 | 8.6 | 64.2 | 19 | 31.1 | 35.8 | 24.19* |

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APPENDIX C

FY 76 VS. FY 77 COMMON COURSES;
ATTRITION DATA COMPARISON

TABLE C-1. FY 76 VS. FY 77 COMMON COURSE

| CDP | SHORT TITLE | CIN | ACADEMIC ATTRITION | | | | | | NONACADEMIC ATTRITION | | | | | |
|------|-------------------|-----------|--------------------|------|------|---------|------|-----|-----------------------|------|------|---------|------|----|
| | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 130E | NUC PWR | A661 0010 | - | 424 | +424 | - | 14 | +14 | - | 235 | +235 | - | 8 | - |
| 340S | AVR-A1 | C100 2014 | 60 | 10 | -50 | 10 | 3 | -7 | 23 | 3 | -20 | 4 | 1 | 8 |
| 532R | MALRE-A | C680 2015 | 3 | 0 | -3 | 3 | - | -3 | 0 | 2 | +2 | 0 | 3 | 3 |
| 541U | SQS 53 OP BASIC | A130 0103 | 0 | 0 | 0 | 0 | - | 0 | 0 | 2 | +2 | 0 | 1 | 1 |
| 1300 | NUC PWR | A661 0010 | 111 | 0 | -111 | 18 | - | -18 | 3 | - | -35 | 6 | - | - |
| 1301 | NUC PWR | A661 0010 | 336 | - | -336 | 18 | - | -18 | 142 | - | -142 | 8 | - | - |
| 2053 | CTT-FLR 11/15 OPS | A231 0024 | 0 | 2 | +2 | 0 | 4 | +4 | 1 | 0 | -1 | 1 | - | - |
| 3197 | CTT ELINT OP | A231 0028 | 1 | 3 | +2 | 1 | 4 | +3 | 1 | 0 | -1 | 1 | - | - |
| 3522 | AVCC-A1 | C780 2010 | 0 | 0 | 0 | 0 | - | 0 | 3 | 2 | -1 | 2 | 1 | 1 |
| 3585 | BASNEL-A1 | C600 2010 | 15 | 7 | -8 | 2 | 1 | -1 | 23 | 23 | 0 | 3 | 3 | 3 |
| 3806 | ET SEIR | A104 0012 | 0 | - | 0 | 0 | - | 0 | 12 | - | -12 | 2 | - | - |
| 5261 | SCAT-MOD-2 | A100 0036 | 6 | 8 | +2 | 7 | 4 | -3 | 4 | 10 | +6 | 5 | 5 | 5 |
| 5309 | SCAT-MOD-1 | A100 0035 | 9 | 19 | +10 | 5 | 8 | +3 | 7 | 12 | +5 | 4 | 5 | 5 |
| 6001 | QM-A | A061 0012 | 5 | 72 | +67 | 1 | 12 | +11 | 0 | 23 | +23 | 0 | 4 | 4 |
| 6002 | QM-A | A061 0012 | 7 | 42 | +37 | 2 | 11 | +9 | 7 | 7 | 0 | 2 | 2 | 2 |
| 6005 | SM-A | A061 0011 | 19 | 17 | -2 | 4 | 3 | -1 | 5 | 40 | +35 | 1 | 7 | 7 |
| 6006 | SM-A | A061 0011 | 26 | 43 | +17 | 9 | 12 | +3 | 6 | 21 | +15 | 2 | 6 | 6 |
| 6015 | SURF-ST-CLASS A | A130 0037 | 39 | 48 | +9 | 4 | 4 | 0 | 10 | 24 | +14 | 1 | 2 | 2 |
| 6020 | CTA-A | A510 0015 | 11 | 16 | +5 | 5 | 10 | +5 | 4 | 9 | +5 | 2 | 6 | 6 |
| 6025 | GMT-A | A644 0014 | 17 | 18 | +1 | 6 | 9 | +3 | 9 | 12 | +3 | 3 | 6 | 6 |
| 6027 | FTA-A | A113 0010 | 141 | 74 | -67 | 7 | 8 | +1 | 120 | 45 | -75 | 6 | 5 | 5 |
| 6034 | TM-SS-TORP OP | A123 0127 | 4 | 9 | +5 | 1 | 6 | +5 | 4 | 3 | -1 | 1 | 2 | 2 |
| 6036 | TM-OP-A/S-TORP 6 | A123 0127 | 0 | 19 | +19 | 0 | 9 | +9 | 2 | 2 | 0 | 1 | 1 | 1 |
| 6041 | MN-A | A647 0016 | 33 | 5 | -28 | 18 | 5 | -13 | 9 | 8 | -1 | 5 | 7 | 7 |
| 6046 | IM-A | A670 0010 | 6 | 3 | -3 | 6 | 4 | -2 | 8 | 4 | -4 | 8 | 5 | 5 |
| 6047 | QM-A | A670 0018 | 4 | 6 | +2 | 5 | 9 | +4 | 10 | 7 | -3 | 11 | 11 | 11 |
| 6053 | CTO-A | A580 0016 | 31 | 32 | +1 | 5 | 8 | +3 | 18 | 16 | -2 | 3 | 4 | 4 |
| 6057 | YN-A | A510 0012 | 135 | 89 | -46 | 10 | 7 | -3 | 107 | 63 | -44 | 8 | 5 | 5 |
| 6059 | SK-CLASS A | A551 0014 | 46 | 29 | -17 | 3 | 2 | -1 | 15 | 43 | +28 | 1 | 3 | 3 |
| 6061 | DK-A | A542 0011 | 10 | 10 | 0 | 4 | 4 | 0 | 2 | 10 | +8 | 1 | 4 | 4 |
| 6063 | INFO SPEC JO A1 | A570 0011 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - |
| 6065 | MUSIC BASIC | A450 0010 | 81 | 53 | -28 | 9 | 8 | -1 | 62 | 26 | -36 | 7 | 4 | 4 |
| 6068 | MR/A | A702 0019 | 34 | 44 | +10 | 6 | 8 | +2 | 11 | 16 | +5 | 2 | 3 | 3 |
| 6070 | EM/A | A662 0016 | 13 | 0 | -13 | 1 | - | -1 | 27 | 19 | -8 | 2 | 1 | 1 |
| 6071 | EM/A | A662 0016 | 0 | - | 0 | 0 | - | 0 | 24 | - | -24 | 2 | - | - |
| 6073 | IC-A | A623 0012 | 0 | 10 | +10 | 0 | 1 | +1 | 12 | 20 | +8 | 1 | 2 | 2 |
| 6076 | PM-A | A790 0012 | 4 | 9 | +5 | 7 | 16 | +9 | 1 | 3 | +2 | 2 | 6 | 6 |
| 6077 | ML-A | A790 0010 | 3 | 3 | 0 | 7 | 6 | -1 | 1 | 1 | 0 | 2 | 2 | 2 |
| 6078 | EA-A | A412 0010 | 0 | 0 | 0 | 0 | - | 0 | 1 | 2 | +1 | 2 | 14 | 14 |
| 6079 | CE-A | A721 0018 | 2 | 0 | -2 | 1 | - | -1 | 4 | 3 | -1 | 2 | 4 | 4 |

FY 77 COMMON COURSES; ATTRITION DATA COMPARISON

| ACADEMIC ATTRITION | | | | | TOTAL ATTRITION | | | | | | SETBACKS | | | | | |
|--------------------|---------|------|------|-----|-----------------|------|------|---------|------|-----|----------|------|------|---------|------|-----|
| ER | PERCENT | | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| 7 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 5 | +235 | - | 8 | +8 | - | 660 | +660 | - | 21 | +21 | - | - | 0 | - | - | 0 |
| 3 | -20 | 4 | 1 | -3 | 80 | 14 | -66 | 13 | 4 | -9 | 149 | 59 | -90 | 23 | 16 | -7 |
| 2 | +2 | 0 | 3 | +3 | 3 | 2 | -1 | 3 | 3 | 0 | 1 | 0 | -1 | 1 | 0 | -1 |
| 2 | +2 | 0 | 1 | +1 | 0 | 2 | +2 | 0 | 1 | +1 | 0 | 2 | +2 | 0 | 1 | +1 |
| - | -35 | 6 | - | -6 | 145 | - | -145 | 23 | - | -23 | 0 | - | 0 | 0 | - | 0 |
| - | -142 | 8 | - | -8 | 464 | - | -464 | 24 | - | -24 | 0 | - | 0 | 0 | - | 0 |
| 0 | -1 | 1 | - | -1 | 1 | 2 | +1 | 1 | 4 | +3 | 40 | 29 | -11 | 29 | 47 | +18 |
| 0 | -1 | 1 | - | -1 | 2 | 3 | +1 | 2 | 4 | +2 | 71 | 34 | -37 | 53 | 37 | -16 |
| 2 | -1 | 2 | 1 | -1 | 3 | 2 | -1 | 2 | 1 | -1 | 2 | 8 | +6 | 1 | 3 | +2 |
| 23 | 0 | 3 | 3 | 0 | 39 | 30 | -9 | 5 | 4 | -1 | 79 | 103 | +24 | 10 | 13 | +3 |
| - | -12 | 2 | - | -2 | 12 | - | -12 | 2 | - | -2 | 116 | - | -116 | 18 | - | -18 |
| 0 | +6 | 5 | 5 | 0 | 10 | 17 | +7 | 11 | 9 | -2 | 0 | - | 0 | 0 | - | 0 |
| 12 | +5 | 4 | 5 | +1 | 16 | 29 | +13 | 9 | 12 | +3 | 0 | - | 0 | 0 | - | 0 |
| 23 | +23 | 0 | 4 | +4 | 11 | 92 | +81 | 2 | 15 | +13 | 22 | 72 | +50 | 4 | 12 | +8 |
| 7 | 0 | 2 | 2 | 0 | 14 | 50 | +36 | 4 | 13 | +9 | 24 | 30 | +6 | 7 | 8 | +1 |
| 40 | +35 | 1 | 7 | +6 | 24 | 58 | +34 | 5 | 10 | +5 | 77 | 40 | -37 | 15 | 7 | -8 |
| 21 | +15 | 2 | 6 | +4 | 37 | 66 | +29 | 12 | 18 | +6 | 37 | 21 | -16 | 12 | 6 | -6 |
| 24 | +14 | 1 | 2 | +1 | 49 | 72 | +23 | 5 | 6 | +1 | 29 | 60 | +31 | 4 | 5 | +1 |
| 9 | +5 | 2 | 6 | +4 | 16 | 25 | +9 | 7 | 15 | +8 | 231 | 86 | -145 | 69 | 44 | -25 |
| 12 | +3 | 3 | 6 | +3 | 27 | 29 | +2 | 9 | 14 | +5 | 6 | 6 | 0 | 2 | 3 | +1 |
| 45 | -75 | 6 | 5 | -1 | 248 | 123 | -125 | 12 | 13 | +1 | 226 | 197 | -29 | 11 | 20 | +9 |
| 3 | -1 | 1 | 2 | +1 | 8 | 11 | +3 | 2 | 8 | +6 | 17 | 7 | -10 | 4 | 5 | +1 |
| 2 | 0 | 1 | 1 | 0 | 2 | 21 | +19 | 1 | 10 | +9 | 5 | 23 | +18 | 2 | 11 | +9 |
| 8 | -1 | 5 | 7 | +2 | 43 | 14 | -29 | 23 | 12 | -11 | 64 | 37 | -27 | 32 | 30 | -2 |
| 4 | -4 | 8 | 5 | -3 | 14 | 7 | -7 | 14 | 9 | -5 | 0 | 0 | 0 | 0 | - | 0 |
| 7 | -3 | 11 | 11 | 0 | 15 | 13 | -2 | 16 | 19 | +3 | 0 | 0 | 0 | 0 | - | 0 |
| 16 | -2 | 3 | 4 | +1 | 57 | 45 | -12 | 9 | 11 | +2 | 607 | 283 | -324 | 67 | 54 | -13 |
| 63 | -44 | 8 | 5 | -3 | 239 | 157 | -82 | 17 | 12 | -5 | 454 | 50 | -404 | 30 | 4 | -26 |
| 43 | +28 | 1 | 3 | +2 | 62 | 73 | +11 | 4 | 5 | +1 | 62 | 88 | +26 | 4 | 6 | +2 |
| 10 | +8 | 1 | 4 | +3 | 12 | 20 | +8 | 5 | 8 | +3 | 5 | 15 | +10 | 2 | 6 | +4 |
| 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 26 | -36 | 7 | 4 | -3 | 139 | 80 | -59 | 15 | 12 | -3 | 139 | 102 | -37 | 15 | 15 | 0 |
| 16 | +5 | 2 | 3 | +1 | 46 | 61 | +15 | 8 | 11 | +3 | 108 | 44 | -64 | 18 | 8 | -10 |
| 19 | -8 | 2 | 1 | -1 | 41 | 19 | -22 | 3 | 1 | -2 | 201 | 156 | -45 | 14 | 8 | -6 |
| - | -24 | 2 | - | -2 | 24 | - | -24 | 2 | - | -2 | 49 | - | -49 | 4 | - | -4 |
| 20 | +8 | 1 | 2 | +1 | 12 | 31 | +19 | 1 | 3 | +2 | 219 | 140 | -79 | 17 | 13 | -4 |
| 3 | +2 | 2 | 6 | +4 | 5 | 12 | +7 | 9 | 21 | +12 | 4 | 0 | -4 | 7 | - | -7 |
| 1 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 9 | 8 | -1 | 0 | 0 | 0 | 0 | - | 0 |
| 2 | +1 | 2 | 14 | +12 | 1 | 2 | +1 | 2 | 14 | +12 | 0 | 0 | 0 | 0 | - | 0 |
| 3 | -1 | 2 | 4 | +2 | 5 | 3 | -2 | 3 | 4 | +1 | 2 | 2 | 0 | 1 | 2 | +1 |

TABLE C-1. FY 76 VS. FY 77 COMMON COURSES; AT

| CDP | SHORT TITLE | CIN | ACADEMIC ATTRITION | | | | | | NONACADEMIC ATTRITION | | | | | |
|------|--------------------|-----------|--------------------|------|-----|---------|------|-----|-----------------------|------|------|---------|------|---|
| | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 6081 | BU-A | A710 0010 | 0 | 0 | 0 | 0 | - | 0 | 4 | - | -4 | 2 | - | |
| 6082 | SW-A | A711 0015 | 1 | 1 | 0 | 1 | 1 | 0 | 5 | 12 | +7 | 5 | 8 | |
| 6083 | UT-A | A720 0012 | 0 | 0 | 0 | 0 | - | 0 | 3 | 2 | -1 | 3 | 3 | |
| 6093 | TM SUB/TORP TECH | A123 0127 | 0 | 18 | +18 | 0 | 10 | +10 | 2 | 3 | +1 | 1 | 2 | |
| 6097 | EO-A | A730 0010 | 3 | 3 | 0 | 1 | 1 | 0 | 8 | 14 | +6 | 3 | 5 | |
| 6102 | PN-A | A500 0014 | 104 | 40 | -64 | 9 | 4 | -5 | 45 | 60 | +15 | 4 | 6 | |
| 6103 | OT-A | A210 0011 | 31 | - | -31 | 8 | - | -8 | 11 | - | -11 | 3 | - | |
| 6106 | HT-A2 | A700 0010 | 0 | 0 | 0 | 0 | - | 0 | 0 | 49 | +49 | 0 | 4 | |
| 6108 | FT-A2 | A113 0019 | 9 | 0 | -9 | 1 | - | -1 | 27 | 12 | -15 | 3 | 2 | |
| 6115 | GM-A | A041 0010 | 94 | 0 | -94 | 7 | - | -7 | 108 | 15 | -93 | 8 | 3 | |
| 6118 | SQQ 23 PAIR OP-BAS | A130 0097 | 0 | 2 | +2 | 0 | 3 | +3 | 0 | 1 | +1 | 0 | 1 | |
| 6119 | HT-A1 | A780 0035 | 0 | 0 | 0 | 0 | - | 0 | 11 | 0 | -11 | 1 | - | |
| 6120 | HT-A1 | A780 0035 | 0 | 12 | +12 | 0 | 1 | +1 | 15 | 12 | -3 | 1 | 1 | |
| 6121 | CTI-A2 THAI | A232 0043 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | |
| 6122 | CTI-A2-HEBREW | A232 0041 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | |
| 6123 | CTI-A2-ARABIC | A232 0042 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | |
| 6125 | MS-A | A800 0013 | 48 | 130 | +82 | 2 | 6 | +4 | 0 | 64 | +64 | 0 | 3 | |
| 6126 | QRTR-MSTR BASE | A772 0010 | 3 | 9 | +6 | 4 | 13 | +9 | 7 | 7 | 0 | 9 | 10 | |
| 6131 | DS-A | A150 0025 | 33 | 41 | +8 | 9 | 11 | +2 | 4 | 4 | 0 | 1 | 1 | |
| 6135 | ET-A-3R | A104 0010 | 12 | 0 | -12 | 1 | - | -1 | 23 | 9 | -14 | 2 | 1 | |
| 6137 | ET-A-3N | A102 0010 | 17 | 10 | -7 | 2 | 1 | -1 | 26 | 10 | -16 | 3 | 1 | |
| 6140 | CTI-A2-FRENCH | A232 0040 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | |
| 6142 | OSA | A221 0011 | 67 | 149 | +82 | 3 | 8 | +5 | 112 | 189 | +77 | 5 | 10 | |
| 6144 | RMA | A202 0014 | 285 | 257 | -28 | 8 | 7 | -1 | 360 | 220 | -140 | 10 | 6 | |
| 6146 | PLRS-POS-ELECT-A | A121 0142 | 78 | 80 | +2 | 8 | 11 | +3 | 68 | 43 | -25 | 7 | 6 | |
| 6149 | CM-A | A610 0022 | 0 | 0 | 0 | 0 | - | 0 | 2 | 4 | +2 | 1 | 2 | |
| 6161 | CTM-A | A102 0109 | 3 | 4 | +1 | 1 | 2 | +1 | 0 | 6 | +6 | 0 | 3 | |
| 6167 | OP-A | A531 0016 | 17 | 13 | -4 | 4 | 3 | -1 | 0 | 4 | +4 | 0 | 1 | |
| 6172 | STS-CLASS A | A130 0029 | 13 | 29 | +16 | 3 | 6 | +3 | 8 | 19 | +11 | 2 | 4 | |
| 6178 | EW-OP-MAINT/TECH | A102 0154 | 51 | 35 | -16 | 14 | 13 | -1 | 10 | 47 | +37 | 3 | 17 | |
| 6182 | ASH-A1 | C602 2023 | 2 | 0 | -2 | 1 | - | -1 | 3 | 4 | +1 | 2 | 2 | |
| 6183 | ASM-A1 | C602 2024 | 6 | 2 | -4 | 3 | 1 | -2 | 7 | 8 | -1 | 4 | 4 | |
| 6184 | INTRO WELD | A700 0011 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | |
| 6193 | MK-111-OP-BAS | A130 0088 | 1 | - | -1 | 1 | - | -1 | 0 | - | 0 | 0 | - | |
| 6194 | MK-114-OP-BAS | A130 0083 | 0 | 0 | 0 | 0 | - | 0 | 0 | 7 | +7 | 0 | 1 | |
| 6195 | SQS-DG-OP-BAS | A130 0084 | 0 | 0 | 0 | 0 | - | 0 | 0 | 5 | +5 | 0 | 1 | |
| 6196 | SQS-35V-38 OP-BAS | A130 0085 | 1 | 0 | -1 | 2 | - | -2 | 0 | 0 | 0 | 0 | - | |
| 6197 | SQS-26-BX-OP-BAS | A130 0092 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | |
| 6198 | SQS-26-CX/AXR | A130 0086 | 0 | 0 | 0 | 0 | - | 0 | 4 | 5 | +1 | 1 | 1 | |
| 6206 | SH-A | A823 0012 | 42 | 104 | +62 | 7 | 15 | +8 | 12 | 20 | +8 | 2 | 3 | |

FY 77 COMMON COURSES; ATTRITION DATA COMPARISON (continued)

| ACADEMIC ATTRITION | | | | TOTAL ATTRITION | | | | | | SETBACKS | | | | | | |
|--------------------|---------|------|------|-----------------|------|------|---------|------|------|----------|------|------|---------|------|------|-----|
| 77 | PERCENT | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | | |
| | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| -4 | | 2 | - | -2 | 4 | 0 | -4 | 2 | - | -2 | 6 | 4 | -2 | 3 | 2 | -1 |
| +7 | | 5 | 8 | +3 | 6 | 14 | +8 | 6 | 9 | +3 | 0 | 1 | +1 | 0 | 1 | +1 |
| -1 | | 3 | 3 | 0 | 3 | 2 | -1 | 3 | 3 | 0 | 1 | 2 | +1 | 1 | 3 | +2 |
| +1 | | 1 | 2 | +1 | 2 | 24 | +22 | 1 | 13 | +12 | 2 | 16 | +14 | 1 | 9 | +8 |
| +6 | | 3 | 5 | +2 | 11 | 16 | +5 | 4 | 6 | +2 | 11 | - | -11 | 4 | 4 | 0 |
| +15 | | 4 | 6 | +2 | 153 | 102 | -51 | 13 | 10 | -3 | 245 | 40 | -205 | 20 | 4 | -16 |
| -11 | | 3 | - | -3 | 44 | - | -44 | 11 | - | -11 | 133 | - | -133 | 20 | - | -20 |
| +49 | | 0 | 4 | +4 | 25 | 62 | +37 | 1 | 5 | +4 | 0 | 0 | 0 | 0 | - | 0 |
| -15 | | 3 | 2 | -1 | 36 | 12 | -24 | 4 | 2 | -2 | 74 | 24 | -50 | 8 | 4 | -4 |
| -93 | | 8 | 3 | -5 | 196 | 15 | -181 | 14 | 3 | -11 | 137 | 15 | -122 | 10 | 3 | -7 |
| +1 | | 0 | 1 | +1 | 0 | 3 | +3 | 0 | 4 | +4 | 0 | 1 | +1 | 0 | 1 | +1 |
| -11 | | 1 | - | -1 | 11 | 13 | +2 | 1 | 1 | 0 | 216 | 0 | -216 | 18 | - | -18 |
| -3 | | 1 | 1 | 0 | 15 | 12 | -3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 1 | +1 | 0 | 3 | +3 |
| +64 | | 0 | 3 | +3 | 48 | 199 | +151 | 2 | 9 | +7 | 123 | 744 | +621 | 5 | 30 | +25 |
| 0 | | 9 | 10 | +1 | 10 | 16 | +6 | 12 | 22 | +10 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | | 1 | 1 | 0 | 37 | 45 | +8 | 10 | 12 | +2 | 87 | 176 | +89 | 22 | 40 | +18 |
| -14 | | 2 | 1 | -1 | 2 | 9 | +7 | 23 | 1 | -22 | 84 | 53 | -31 | 7 | 6 | -1 |
| -16 | | 3 | 1 | -2 | 35 | 20 | -15 | 4 | 2 | -2 | 181 | 92 | -89 | 19 | 9 | -10 |
| 0 | | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | +3 | 0 | 13 | +13 |
| +77 | | 5 | 10 | +5 | 183 | 333 | +150 | 8 | 17 | +9 | 280 | 512 | +232 | 12 | 25 | -13 |
| -140 | | 10 | 6 | -4 | 636 | 453 | -183 | 17 | 12 | -5 | 0 | 108 | +108 | 0 | 3 | +3 |
| -25 | | 7 | 6 | -1 | 141 | 128 | -13 | 14 | 17 | +3 | 280 | 346 | +166 | 26 | 40 | +14 |
| +2 | | 1 | 2 | +1 | 2 | 4 | +2 | 1 | 2 | +1 | 2 | 2 | 0 | 1 | 1 | 0 |
| +6 | | 0 | 3 | +3 | 3 | 9 | +6 | 1 | 5 | +4 | 275 | 144 | -131 | 71 | 56 | -15 |
| +4 | | 0 | 1 | +1 | 17 | 18 | +1 | 4 | 4 | 0 | 72 | 61 | -9 | 16 | 13 | -3 |
| +11 | | 2 | 4 | +2 | 21 | 49 | +28 | 5 | 10 | +5 | 4 | 19 | +15 | 3 | 4 | +1 |
| +37 | | 3 | 17 | +14 | 63 | 82 | +19 | 17 | 28 | +11 | 1128 | 259 | -869 | 125 | 68 | -57 |
| +1 | | 2 | 2 | 0 | 5 | 4 | -1 | 3 | 2 | -1 | 9 | 9 | 0 | 5 | 4 | -1 |
| -1 | | 4 | 4 | 0 | 13 | 10 | -3 | 7 | 5 | -2 | 21 | 12 | -9 | 11 | 6 | -5 |
| 0 | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 1 | - | -1 | 1 | - | -1 | 0 | - | 0 | 0 | - | 0 |
| +7 | | 0 | 1 | +1 | 0 | 7 | +7 | 0 | 1 | +1 | 0 | 0 | 0 | 0 | - | 0 |
| +5 | | 0 | 1 | +1 | 4 | 5 | +1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 1 | 0 | -1 | 2 | - | -2 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| +1 | | 1 | 1 | 0 | 4 | 5 | +1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| +8 | | 2 | 3 | +1 | 48 | 127 | +79 | 8 | 18 | +10 | 12 | 60 | +48 | 2 | 9 | +7 |

TABLE C-1. FY 76 VS. FY 77 COMMON COURSES; ATTRITION

| CDP | SHORT TITLE | CIN | ACADEMIC ATTRITION | | | | | | NONACADEMIC ATTRITION | | | | | |
|------|-------------------|-----------|--------------------|------|-----|---------|------|-----|-----------------------|------|------|---------|------|-----|
| | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 6209 | SH-A | A823 0012 | 0 | 5 | +5 | 0 | 1 | +1 | 0 | 5 | +5 | 0 | 5 | +5 |
| 6239 | AVA-AT-A1 | C100 2013 | 94 | 147 | +53 | 6 | 9 | +3 | 78 | 80 | +2 | 5 | 7 | +2 |
| 6240 | AVA-AQ-A1 | C100 2013 | 20 | 37 | +17 | 5 | 10 | +5 | 28 | 18 | -10 | 7 | 9 | +2 |
| 6241 | AVA-AX-A1 | C100 2013 | 45 | 27 | -18 | 7 | 7 | 0 | 59 | 31 | -28 | 9 | 7 | -2 |
| 6242 | AVA-TD-A1 | C100 2013 | 21 | 22 | +1 | 4 | 5 | +1 | 21 | 13 | -8 | 4 | 5 | +1 |
| 6244 | AFTA-AT-A1 | C100 2010 | 21 | 30 | +9 | 5 | 5 | 0 | 21 | 24 | +3 | 5 | 4 | -1 |
| 6245 | AFTA-AQ-A1 | C100 2010 | 12 | 9 | -3 | 6 | 7 | +1 | 6 | 4 | -2 | 3 | 2 | -1 |
| 6246 | AFTA-AX-A1 | C100 2010 | 12 | 6 | -6 | 6 | 4 | -2 | 10 | 8 | -2 | 5 | 4 | -1 |
| 6260 | BT-A | A651 0010 | 0 | 29 | +29 | 0 | 1 | +1 | 217 | 608 | +391 | 7 | 19 | +12 |
| 6261 | EN-A | A652 0018 | 0 | 0 | 0 | 0 | - | 0 | 35 | 69 | +34 | 2 | 4 | +2 |
| 6262 | MM-A | A651 0015 | 0 | 0 | 0 | 0 | - | 0 | 268 | 345 | +77 | 5 | 7 | +2 |
| 6263 | ET-A1-ETN | A100 0012 | 65 | 88 | +23 | 5 | 6 | +1 | 52 | 88 | +36 | 4 | 6 | +2 |
| 6264 | ET-A1-CTM | A100 0012 | 30 | 23 | -7 | 10 | 10 | 0 | 6 | 18 | +12 | 2 | 2 | 0 |
| 6265 | ET-A1-ETR | A100 0012 | 76 | 74 | -2 | 5 | 5 | 0 | 76 | 104 | +28 | 5 | 7 | +2 |
| 6266 | ET-A2-ETN | A100 0014 | 9 | 30 | +21 | 1 | 3 | +2 | 28 | 20 | -8 | 3 | 2 | -1 |
| 6267 | ET-A2-CTN | A100 0014 | 8 | 10 | +2 | 3 | 5 | +2 | 11 | 6 | -5 | 4 | 3 | -1 |
| 6268 | ET-A2-ETR | A100 0014 | 37 | 18 | -19 | 3 | 2 | -1 | 37 | 18 | -19 | 3 | 2 | -1 |
| 6278 | AC-A1 | C222 2010 | 85 | 114 | +29 | 12 | 17 | +5 | 27 | 25 | -2 | 4 | 4 | 0 |
| 6286 | BU-A | A710 0010 | 2 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1 | 1 | 0 |
| 6287 | EA-A | A412 0010 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6289 | CE-A | A721 0018 | 0 | 0 | 0 | 0 | - | 0 | 1 | 10 | +9 | 2 | 2 | 0 |
| 6290 | UT-A | A720 0012 | 0 | 0 | 0 | 0 | - | 0 | 1 | 2 | +1 | 1 | 2 | +1 |
| 6291 | CM-A | A610 0022 | 0 | 2 | +2 | 0 | 1 | +1 | 1 | 7 | +6 | 1 | 4 | +3 |
| 6292 | EO-A | A730 0010 | 2 | 0 | -2 | 1 | - | -1 | 4 | 6 | +2 | 2 | 2 | 0 |
| 6299 | EW-OP-TECH | A102 0155 | 7 | 16 | +9 | 6 | 19 | +13 | 54 | 8 | -46 | 39 | 10 | -29 |
| 6300 | PC-A | A515 0018 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6301 | CTR-A | A231 0044 | 128 | 103 | -25 | 17 | 16 | -1 | 28 | 56 | +28 | 4 | 3 | -1 |
| 6302 | CTT-A-PREP | A231 0023 | 77 | 123 | +46 | 10 | 14 | +4 | 15 | 33 | +18 | 2 | 4 | +2 |
| 6319 | CTT/ICR/NON MORSE | A231 0047 | 0 | 1 | +1 | 0 | 1 | +1 | 0 | 1 | +1 | 0 | 1 | +1 |
| 6320 | CTT/SPE/NON MORSE | A231 0046 | 0 | 13 | +13 | 0 | 3 | +3 | 0 | 4 | +4 | 0 | 1 | +1 |
| 6321 | CTI-A2-RUSSIAN | A232 0021 | 1 | 3 | +2 | 1 | 2 | +1 | 2 | 1 | -1 | 2 | 1 | -1 |
| 6322 | CTI-A2-CHI-MAN | A232 0022 | 0 | 0 | 0 | 0 | - | 0 | 3 | 1 | -2 | 9 | 6 | -3 |
| 6323 | CTI-A2-VIETNAM | A232 0023 | 0 | 0 | 0 | 0 | - | 0 | 0 | 1 | +1 | 0 | 6 | +6 |
| 6326 | CTI-A2-POLISH | A232 0026 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 6327 | CTI-A2-BULGAR | A232 0027 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 6328 | CTI-A2-KOREAN | A232 0028 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 6329 | CTI-A2-COMMON BL | A232 0029 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 6330 | CTI-A2-GERMAN | A232 0030 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 6331 | CTI-A2-SPANISH | A232 0031 | 3 | 1 | -2 | 6 | 3 | -3 | 0 | 0 | 0 | 0 | - | 0 |
| 6332 | CTI-A2-ROM | A232 0032 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |

MMO, COURSES: ATTRITION DATA COMPARISON (continued)

| CADEMIC ATTRITION | | | | TOTAL ATTRITION | | | | | | SETBACKS | | | | | |
|-------------------|---------|------|-----|-----------------|------|------|---------|------|-----|----------|------|-------|---------|------|-----|
| R | PERCENT | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| +5 | 0 | 1 | +1 | 5 | 10 | +5 | 1 | 2 | +1 | 25 | 16 | -9 | 5 | 3 | -2 |
| +2 | 5 | 5 | 0 | 177 | 234 | +57 | 11 | 14 | +3 | 15 | 0 | -15 | 1 | - | -1 |
| -10 | 7 | 5 | -2 | 49 | 57 | +8 | 12 | 15 | +3 | 8 | 0 | -8 | 2 | - | -2 |
| -28 | 9 | 8 | -1 | 101 | 56 | -45 | 15 | 14 | -1 | 13 | 0 | -13 | 2 | - | -2 |
| -8 | 4 | 3 | -1 | 44 | 36 | -8 | 8 | 8 | 0 | 5 | 0 | -5 | 1 | - | -1 |
| +3 | 5 | 4 | -1 | 43 | 55 | +12 | 10 | 9 | -1 | 190 | 303 | +113 | 38 | 41 | +3 |
| -2 | 3 | 3 | 0 | 18 | 12 | -6 | 9 | 10 | +1 | 87 | 61 | -26 | 37 | 41 | +4 |
| -2 | 5 | 5 | 0 | 20 | 12 | -8 | 10 | 8 | -2 | 82 | 67 | -15 | 35 | 37 | +2 |
| +391 | 7 | 19 | +12 | 217 | 608 | +391 | 7 | 19 | +12 | 740 | 0 | -740 | 22 | - | -22 |
| +34 | 2 | 5 | +3 | 35 | 69 | +34 | 2 | 5 | +3 | 243 | 0 | -243 | 13 | - | -13 |
| +77 | 5 | 7 | +2 | 268 | 345 | +77 | 5 | 7 | +2 | 1424 | 0 | -1424 | 24 | - | -24 |
| +36 | 4 | 6 | +2 | 120 | 198 | +78 | 9 | 13 | +4 | 315 | 198 | -117 | 22 | 13 | -9 |
| +12 | 2 | 8 | +6 | 36 | 41 | +5 | 12 | 17 | +5 | 63 | 31 | -32 | 20 | 13 | -7 |
| +28 | 5 | 7 | +2 | 157 | 184 | +27 | 10 | 12 | +2 | 387 | 168 | -219 | 23 | 11 | -12 |
| -8 | 3 | 2 | -1 | 38 | 50 | +12 | 4 | 5 | +1 | 160 | 103 | -57 | 16 | 10 | -6 |
| -5 | 4 | 3 | -1 | 19 | 14 | -5 | 7 | 7 | 0 | 40 | 18 | -22 | 14 | 9 | -5 |
| -19 | 3 | 2 | -1 | 74 | 36 | -38 | 6 | 4 | -2 | 253 | 75 | -178 | 19 | 8 | -11 |
| -2 | 4 | 4 | 0 | 115 | 137 | +22 | 16 | 20 | +4 | 244 | 317 | +73 | 31 | 41 | +10 |
| 0 | 1 | 1 | 0 | 4 | 4 | 0 | 2 | 2 | 0 | 2 | 16 | +14 | 1 | 7 | +6 |
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 1 | 0 | -1 | 7 | - | -7 |
| +9 | 2 | 7 | +5 | 1 | 10 | +9 | 2 | 7 | +5 | 0 | 3 | +3 | 0 | 2 | +2 |
| +1 | 1 | 2 | +1 | 1 | 2 | +1 | 1 | 2 | +1 | 1 | 0 | -1 | 1 | - | -1 |
| +6 | 1 | 4 | +3 | 1 | 9 | +8 | 1 | 5 | +4 | 0 | 13 | +13 | 0 | 7 | +7 |
| +2 | 2 | 2 | 0 | 4 | 6 | +2 | 2 | 2 | 0 | 2 | 3 | +1 | 1 | 1 | 0 |
| -46 | 39 | 10 | -29 | 61 | 24 | -37 | 43 | 27 | -16 | 145 | 99 | -46 | 69 | 78 | +9 |
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| +28 | 4 | 9 | +5 | 162 | 162 | 0 | 21 | 24 | +3 | 695 | 485 | -210 | 128 | 58 | -70 |
| +18 | 2 | 4 | +2 | 92 | 162 | +66 | 12 | 18 | +6 | 789 | 686 | -103 | 70 | 59 | -11 |
| +1 | 0 | 1 | +1 | 0 | 2 | +2 | 0 | 2 | +2 | 7 | 34 | +27 | 13 | 28 | +15 |
| +4 | 0 | 1 | +1 | 0 | 17 | +17 | 0 | 4 | +4 | 81 | 193 | +112 | 26 | 37 | +11 |
| -1 | 2 | 1 | -1 | 3 | 6 | +3 | 3 | 4 | +1 | 20 | 16 | -4 | 17 | 11 | -6 |
| -2 | 9 | 6 | -3 | 3 | 1 | -2 | 9 | 6 | -3 | 0 | 0 | 0 | 0 | - | 0 |
| +1 | 0 | 6 | +6 | 0 | 1 | +1 | 0 | 6 | +6 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 5 | +5 | 0 | 22 | +22 |
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 0 | 0 | - | 0 | 3 | 1 | -2 | 6 | 3 | -3 | 1 | 0 | -1 | 2 | - | -2 |
| 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |

TABLE C-1. FY 76 VS. FY 77 COMMON COURSES:

| CDP | SHORT TITLE | CIN | ACADEMIC ATTRITION | | | | | | NONACADEMIC ATTRITION | | | | |
|------|------------------|-----------|--------------------|------|-----|---------|------|-----|-----------------------|------|-----|------|------|
| | | | NUMBER | | | PERCENT | | | NUMBER | | | PER | |
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 |
| 6333 | CTI-A2-SERBO-CRO | A232 0033 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 |
| 6337 | UWFT-CLASS A | A130 0138 | 0 | 4 | +4 | 0 | 4 | +4 | 0 | 2 | +2 | 0 | 0 |
| 6339 | HTA-PH2 | A700 0010 | 0 | 0 | 0 | 0 | - | 0 | 2 | 22 | +20 | 1 | 1 |
| 6340 | HT MAINT | A790 0013 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | 0 |
| 6345 | SCAT-MOD-5 | A100 0052 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 |
| 6346 | SCAT-MOD-4 | A100 0051 | 0 | 2 | +2 | 0 | 5 | +5 | 0 | 1 | +1 | 0 | 0 |
| 6347 | SCAT-MOD-3 | A100 0050 | 0 | 0 | 0 | 0 | - | 0 | 0 | 1 | +1 | 0 | 0 |
| 6501 | ADJ-A1 | C601 2010 | 102 | 136 | +34 | 4 | 5 | +1 | 76 | 54 | -22 | 3 | 3 |
| 6502 | ADR-A1 | C601 2012 | 3 | - | -3 | 1 | - | -1 | 3 | - | -3 | 1 | 1 |
| 6506 | AO-A1 | C646 2010 | 17 | 32 | +15 | 1 | 2 | +1 | 103 | 64 | -39 | 6 | 6 |
| 6512 | ABF-A1 | C821 2010 | 0 | 4 | +4 | 0 | 1 | +1 | 3 | 8 | +5 | 1 | 1 |
| 6513 | ABE-A1 | C680 2012 | 3 | 22 | +19 | 1 | 6 | +5 | 3 | 4 | +1 | 1 | 1 |
| 6515 | AE-A1 | C602 2012 | 44 | 34 | -10 | 2 | 2 | 0 | 67 | 52 | -15 | 3 | 3 |
| 6516 | AME-A1 | C602 2015 | 8 | 13 | +5 | 1 | 2 | +1 | 33 | 19 | -14 | 4 | 4 |
| 6517 | AMH-A1 | C602 2017 | 33 | 15 | -18 | 2 | 1 | -1 | 67 | 44 | -23 | 4 | 4 |
| 6518 | AMS-A1 | C603 2010 | 15 | 21 | +6 | 1 | 1 | 0 | 75 | 84 | +9 | 5 | 5 |
| 6519 | PR-BASIC | C602 2010 | 5 | 6 | +1 | 1 | 1 | 0 | 10 | 30 | +20 | 2 | 2 |
| 6520 | AG-A1 | C420 2010 | 6 | 12 | +6 | 2 | 4 | +2 | 6 | 15 | +9 | 2 | 2 |
| 6521 | TD-A1 | C191 2010 | 4 | 0 | -4 | 1 | - | -1 | 4 | 4 | 0 | 1 | 1 |
| 6522 | AK-A | C551 2010 | 8 | 0 | -8 | 3 | - | -3 | 11 | 14 | +3 | 4 | 4 |
| 6523 | PH-LEVEL 1 | C400 2010 | 18 | 30 | +12 | 5 | 8 | +3 | 7 | 4 | -3 | 2 | 2 |
| 6527 | ABH-A1 | C822 2010 | 0 | 0 | 0 | 0 | - | 0 | 0 | 4 | +4 | 0 | 0 |
| 6528 | AZ-A1 | C516 2010 | 14 | 17 | +3 | 3 | 3 | 0 | 5 | 11 | +6 | 1 | 1 |
| 6529 | IS-A | A242 0010 | 9 | 28 | +19 | 4 | 10 | +6 | 2 | 11 | +9 | 1 | 1 |
| 6530 | ASE-A1 | C602 2019 | 2 | 0 | -2 | 1 | - | -1 | 5 | 4 | -1 | 3 | 3 |
| 6536 | TM-AS-TORP-TECH | A123 0127 | 0 | 12 | +12 | 0 | 14 | +14 | 0 | 0 | 0 | 0 | 0 |
| 6537 | AW-A1 | C210 2010 | 44 | 57 | +13 | 6 | 10 | +4 | 44 | 28 | -16 | 6 | 6 |

FY 77 COMMON COURSES: ATTRITION DATA COMPARISON (continued)

| NONACADEMIC ATTRITION | | | | | TOTAL ATTRITION | | | | | SETBACKS | | | | | |
|-----------------------|---------|---|--|--------|-----------------|-----|---------|------|-----|----------|------|------|---------|------|------|
| NUMBER | PERCENT | | | NUMBER | | | PERCENT | | | NUMBER | | | PERCENT | | |
| | FY77 | Δ | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 0 | 0 | | | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 2 | +2 | | | 0 | 7 | +7 | 0 | 6 | +6 | 0 | 1 | +1 | 0 | 1 | +1 |
| 22 | +20 | | | 1 | 22 | +20 | 1 | 2 | +1 | 9 | 22 | +13 | 5 | 2 | -3 |
| - | 0 | | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 |
| 0 | 0 | | | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 1 | +1 | | | 0 | 3 | +3 | 0 | 8 | +8 | 0 | 0 | 0 | 0 | - | 0 |
| 1 | +1 | | | 0 | 1 | +1 | 0 | 2 | +2 | 0 | 0 | 0 | 0 | - | 0 |
| 54 | -22 | | | 3 | 2 | -1 | 155 | 193 | +38 | 6 | 7 | +1 | 0 | - | 0 |
| - | -3 | | | 1 | - | -1 | 5 | - | -5 | 10 | - | -10 | 4 | - | -4 |
| 64 | -10 | | | 6 | 4 | -2 | 121 | 97 | -24 | 7 | 6 | -1 | 289 | 488 | +199 |
| 8 | +5 | | | 1 | 2 | +1 | 3 | 16 | +13 | 13 | 21 | +8 | 4 | 5 | +1 |
| 4 | +1 | | | 1 | 1 | 0 | 5 | 26 | +21 | 51 | 38 | -13 | 18 | 10 | -8 |
| 52 | -15 | | | 3 | 3 | 0 | 113 | 87 | -26 | 305 | 379 | +74 | 13 | 20 | +7 |
| 19 | -14 | | | 4 | 3 | -1 | 33 | 26 | -7 | 50 | 109 | +59 | 6 | 16 | +10 |
| 44 | -23 | | | 4 | 3 | -1 | 102 | 60 | -42 | 191 | 220 | +29 | 11 | 14 | +3 |
| 84 | +9 | | | 5 | 4 | -1 | 91 | 106 | +15 | 91 | 409 | +318 | 6 | 18 | +12 |
| 30 | +20 | | | 2 | 5 | +3 | 15 | 36 | +21 | 117 | 231 | +114 | 21 | 33 | +12 |
| 15 | +9 | | | 2 | 5 | +3 | 9 | 27 | +18 | 51 | 82 | +31 | 16 | 25 | +9 |
| 4 | 0 | | | 1 | 1 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 14 | +3 | | | 4 | 3 | -1 | 17 | 14 | -3 | 28 | 0 | -28 | 10 | - | -10 |
| 4 | -3 | | | 2 | 1 | -1 | 26 | 34 | +8 | 22 | 22 | 0 | 6 | 6 | 0 |
| 4 | +4 | | | 0 | 1 | +1 | 0 | 4 | +4 | 19 | 26 | +7 | 5 | 6 | +1 |
| 11 | +6 | | | 1 | 2 | +1 | 19 | 28 | +9 | 24 | 28 | +4 | 5 | 5 | 0 |
| 11 | +9 | | | 1 | 4 | +3 | 13 | 40 | +27 | 6 | 22 | +16 | 3 | 8 | +5 |
| 4 | -1 | | | 3 | 2 | -1 | 7 | 4 | -3 | 5 | 8 | +3 | 3 | 4 | +1 |
| 0 | 0 | | | 0 | - | 0 | 0 | 12 | +12 | 0 | 6 | +6 | 0 | 7 | +7 |
| 28 | -16 | | | 6 | 5 | -1 | 92 | 88 | -4 | 12 | 15 | +3 | 27 | 31 | +4 |

1

TAEG Report No.

APPENDIX D

FY 76 VS. FY 77 COMMON COURSES;
ATTRITION COST DATA COMPARISON

TABLE D-1. FY 76 VS. FY 77 COMMON COURSES; ATTRIT

| CDP | SHORT TITLE | CIN | TOTAL COST (X 1000) | | | TOTAL ATTRITION COST (X 1000) | | | FY |
|------|-------------------|-----------|------------------------|------|---------|-------------------------------------|-------|--------|-----|
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | |
| 130E | NUC PWR | A661 0010 | - | - | - | - | - | - | - |
| 340S | AVR-A1 | C100 2014 | 1004.8 | 718 | -286.8 | 117.3 | 35.8 | -81.5 | 81 |
| 532R | MALRE-A | C680 2015 | 379.7 | 290 | - 89.7 | 9.1 | 3.5 | - 5.6 | 9 |
| 541U | SQS 53 OP BASIC | A130 0103 | 30.5 | 422 | +391.5 | 0 | 5.6 | + 5.6 | 0 |
| 1300 | NUC PWR | A661 0010 | 6342.3 | - | - | 952.5 | - | - | 939 |
| 1301 | NUC PWR | A661 0010 | 6400.7 | - | - | 978.5 | - | - | 671 |
| 2053 | CTT-FLR 11/15 OPS | A231 0024 | 255.4 | 103 | -152.4 | 1.5 | 2.6 | + 1.1 | 0 |
| 3197 | CTT ELINT OP | A231 0028 | 47.8 | 511 | +463.2 | - | 17.4 | - | - |
| 3522 | AVCC-AL | C780 2010 | 478.1 | 501 | + 22.9 | 5.9 | 2.4 | - 3.5 | 0 |
| 3585 | BASNEL-AL | C600 2010 | 1606.7 | 1364 | -242.7 | 39.7 | 27.8 | -11.9 | 11 |
| 3806 | ET SEIR | A104 0012 | 1913 | - | - | 5.2 | - | - | 0 |
| 5261 | SCAT-MOD-2 | A100 0036 | - | - | - | - | - | - | - |
| 5309 | SCAT-MOD-1 | A100 0035 | - | - | - | - | - | - | - |
| 6001 | QM-A | A061 0012 | 930.5 | 1356 | +425.5 | 6.8 | 114.2 | +107.4 | 6 |
| 6002 | QM-A | A061 0012 | 511.6 | 567 | + 55.4 | 15.6 | 51.0 | + 35.4 | 7 |
| 6005 | SM-A | A061 0011 | 858.9 | 1282 | +423.1 | 30.2 | 77.6 | +47.4 | 24 |
| 6006 | SM-A | A061 0011 | 458.6 | 533 | + 74.4 | 24.2 | 67.2 | +43.0 | 19 |
| 6015 | SURF-ST-CLASS A | A130 0037 | 3105.5 | 3698 | +592.5 | 141.5 | 220.8 | +79.3 | 111 |
| 6020 | CTA-A | A510 0015 | 615.4 | 590 | - 25.4 | 53.8 | 72.2 | +18.4 | 38 |
| 6025 | GMT-A | A644 0014 | - | - | - | - | - | - | - |
| 6027 | FTA-A | A113 0010 | 10831.6 | 3284 | -7547.6 | 421 | 173.7 | -247.3 | 221 |
| 6034 | TM-SS-TORP-OP | A123 0127 | 889 | 424 | - 465.0 | 16 | 13.4 | - 2.6 | 1 |
| 6036 | TM-OP-AIS-TORPA | A123 0127 | 441 | 609 | + 168.0 | 7.9 | 31.1 | + 23.2 | - |
| 6041 | MN-A | A647 0016 | 1256.6 | 689 | - 567.6 | 113.3 | 66.6 | - 46.7 | 8 |
| 6046 | IM-A | A670 0010 | 529.2 | 588 | + 58.8 | 22.5 | 18.7 | - 3.8 | - |
| 6047 | QM-A | A670 0018 | 394.0 | 389 | - 5.0 | 14.6 | 36.3 | + 21.7 | - |
| 6053 | CTO-A | A580 0016 | 2945.4 | 2468 | - 477.4 | 146.1 | 148.1 | + 2.0 | 9 |
| 6057 | YN-A | A510 0012 | 2659.1 | 2526 | - 133.1 | 343.8 | 168.0 | -175.8 | 24 |
| 6059 | SK-CLASS A | A551 0014 | 3008.8 | 2813 | - 195.8 | 2.1 | 78.9 | + 76.8 | - |
| 6061 | DK-A | A542 0011 | 954.7 | 615 | - 339.7 | 2.4 | 21.6 | + 19.2 | - |
| 6063 | INFO SPEC JO A1 | A570 0011 | - | - | - | - | - | - | - |
| 6065 | MUSIC BASIC | A450 0010 | 4840.4 | 4628 | - 212.4 | 516.6 | 425.7 | - 90.9 | 29 |
| 6068 | MR/A | A702 0019 | 1772.1 | 1665 | - 107.1 | 40.8 | 64.1 | + 23.3 | 3 |
| 6070 | EM/A | A662 0016 | 3720.3 | 5337 | +1616.7 | 101.4 | 55.3 | - 46.1 | 3 |
| 6071 | EM/A | A662 0016 | 2555.1 | - | - | 21.3 | - | - | - |
| 6073 | IC-A | A623 0012 | 2358.8 | 2349 | - 9.8 | 15.9 | 26.2 | + 10.3 | - |
| 6076 | PM-A | A790 0012 | 321.6 | 331 | + 9.4 | 7.5 | 13.1 | + 5.6 | - |
| 6077 | ML-A | A790 0010 | 218.8 | 270 | + 51.2 | 7.5 | 6.3 | - 1.2 | - |
| 6078 | EA-A | A412 0010 | 247.9 | 82 | - 165.9 | 1.6 | 0.0 | - 1.6 | - |
| 6079 | CE-A | A721 0018 | 701.6 | 348 | - 353.6 | 9.5 | 5.7 | - 3.8 | - |

FY 77 COMMON COURSES; ATTRITION COST DATA COMPARISON

| | TOTAL ATTRITION COST (X 1000) | | | ACADEMIC ATTRITION COST (X 1000) | | | NONACADEMIC ATTRITION COST (X 1000) | | | COST PER GRADUATE | | |
|------|-------------------------------------|--------|--|--|-------|--------|---|-------|--------|-------------------|------|-------|
| | FY77 | Δ | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| | - | - | | - | - | - | - | - | - | - | - | - |
| 7.3 | 35.8 | -81.5 | | 83.8 | 27.5 | - 56.3 | 33.5 | 8.3 | -25.2 | 1513 | 2163 | + 650 |
| 9.1 | 3.5 | - 5.6 | | 9.1 | 0 | - 9.1 | 0 | 3.5 | + 3.5 | 3651 | 3668 | + 17 |
| 0 | 5.6 | + 5.6 | | 0 | 0 | - | 0 | 5.6 | + 5.6 | 2030 | 2851 | + 821 |
| 2.5 | - | - | | 939.4 | - | - | 313.1 | - | - | 8559 | - | - |
| 8.5 | - | - | | 677.5 | - | - | 301.1 | - | - | 8559 | - | - |
| 7.5 | 2.6 | + 1.1 | | 0 | 2.6 | + 2.6 | 1.5 | 0 | - 1.5 | 2202 | 2011 | - 191 |
| - | 17.4 | - | | - | 17.4 | - | - | 0 | - | - | 7194 | - |
| 5.9 | 2.4 | - 3.5 | | 0 | 0 | 0 | 5.9 | 2.4 | - 3.5 | 1568 | 2043 | + 475 |
| 9.7 | 27.8 | -11.9 | | 15.9 | 6.5 | - 9.4 | 23.8 | 21.3 | - 2.5 | 2457 | 1918 | - 539 |
| 5.2 | - | - | | 0 | - | - | 5.2 | - | - | 5960 | - | - |
| - | - | - | | - | - | - | - | - | - | - | - | - |
| - | - | - | | - | - | - | - | - | - | - | - | - |
| 6.8 | 114.2 | +107.4 | | 6.8 | 86.6 | +79.8 | 0 | 27.6 | +27.6 | 1512 | 2562 | +1050 |
| 5.6 | 51.0 | + 35.4 | | 7.8 | 43.7 | +35.9 | 7.8 | 7.3 | - 0.5 | 1560 | 1649 | + 89 |
| 80.2 | 77.6 | +47.4 | | 24.2 | 23.1 | - 1.1 | 6.0 | 54.4 | +48.4 | 1577 | 2489 | + 91 |
| 24.2 | 67.2 | +43.0 | | 19.8 | 45.1 | + 25.3 | 4.4 | 22.0 | +17.6 | 1587 | 1720 | + 133 |
| 11.5 | 220.8 | +79.3 | | 113.2 | 147.2 | + 34.0 | 28.3 | 73.6 | +45.3 | 2412 | 3152 | + 740 |
| 53.8 | 72.2 | +18.4 | | 38.4 | 46.2 | + 7.8 | 15.4 | 26.0 | +10.6 | 2772 | 4278 | +1506 |
| - | - | - | | - | - | - | - | - | - | - | - | - |
| 21 | 173.7 | -247.3 | | 226.7 | 108.0 | -118.7 | 194.3 | 65.7 | -128.6 | 3583 | 3836 | + 253 |
| 16 | 13.4 | - 2.6 | | 8.0 | 10.0 | + 2.0 | 8.0 | 3.3 | - 4.7 | 1902 | 3448 | +1546 |
| 7.9 | 31.1 | + 23.2 | | 0 | 28.1 | + 28.1 | 7.9 | 3.0 | - 4.9 | 1902 | 3170 | +1268 |
| 13.3 | 66.6 | - 46.7 | | 88.7 | 25.6 | - 63.1 | 24.6 | 41.0 | + 16.4 | 6868 | 7027 | + 159 |
| 22.5 | 18.7 | - 3.8 | | 9.6 | 8.0 | - 1.6 | 12.9 | 10.7 | - 2.2 | 4725 | 7352 | +2627 |
| 14.6 | 36.3 | + 21.7 | | 4.6 | 16.8 | + 12.2 | 10.0 | 19.6 | + 9.6 | 4582 | 6832 | +2250 |
| 46.1 | 148.1 | + 2.0 | | 91.3 | 98.8 | + 7.5 | 54.8 | 49.4 | - 5.4 | 5077 | 7050 | +1973 |
| 43.8 | 168.0 | -175.8 | | 246.6 | 98.4 | -148.2 | 97.2 | 69.6 | - 27.6 | 2435 | 2255 | - 180 |
| 2.1 | 78.9 | + 76.8 | | 1.6 | 31.8 | + 30.2 | .5 | 47.1 | + 46.6 | 2096 | 2035 | - 61 |
| 2.4 | 21.6 | + 19.2 | | 1.9 | 10.8 | + 8.9 | .5 | 10.8 | + 10.3 | 3604 | 2675 | - 929 |
| - | - | - | | - | - | - | - | - | - | - | - | - |
| 16.6 | 425.7 | - 90.9 | | 290.6 | 285.6 | - 5.0 | 226.0 | 140.1 | - 85.9 | 5769 | 7738 | +1969 |
| 40.8 | 64.1 | + 23.3 | | 30.6 | 47.0 | + 17.6 | 10.2 | 17.1 | + 6.9 | 2885 | 3364 | + 479 |
| 01.4 | 55.3 | - 46.1 | | 33.8 | 0.0 | - 33.8 | 67.6 | 55.3 | - 12.3 | 2501 | 2847 | + 346 |
| 21.3 | - | - | | 0 | - | - | 21.3 | - | - | 2129 | - | - |
| 15.9 | 26.2 | + 10.3 | | 0 | 8.7 | + 8.7 | 15.9 | 17.4 | + 1.5 | 2233 | 2382 | + 149 |
| 7.5 | 13.1 | + 5.6 | | 5.8 | 9.8 | + 4.0 | 1.7 | 3.3 | + 1.6 | 7482 | 8497 | +1015 |
| 7.5 | 6.3 | - 1.2 | | 5.8 | 4.8 | - 1.0 | 1.7 | 1.6 | - 0.1 | 5919 | 5630 | - 289 |
| 1.6 | 0.0 | - 1.6 | | 0 | 0.0 | 0 | 1.6 | 0.0 | - 1.6 | 4679 | 6839 | +2160 |
| 9.5 | 5.7 | - 3.8 | | 2.8 | 0.0 | - 2.8 | 6.7 | 5.7 | - 1.0 | 3508 | 4521 | +1013 |

TABLE D-1. FY 76 VS. FY 77 COMMON COURSES; ATTRITION

| CDP | SHORT TITLE | CIN | TOTAL COST (X 1000) | | | TOTAL ATTRITION COST (X 1000) | | |
|------|--------------------|-----------|------------------------|------|---------|-------------------------------------|-------|--------|
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 6081 | BU-A | A710 0010 | 854.1 | 862 | + 7.9 | 0 | 0 | 0 |
| 6082 | SW-A | A711 0015 | 400.5 | 474 | + 73.5 | 9.2 | 7.3 | - 1.9 |
| 6083 | UT-A | A720 0012 | 608.9 | 445 | - 163.9 | 5.3 | 0.0 | - 5.3 |
| 6093 | TM SUB/TORP TECH | A123 0127 | 381 | 532 | + 151.0 | 6.9 | 39.9 | + 33.0 |
| 6097 | EO-A | A730 0010 | 1560.9 | 1402 | - 158.9 | 8.9 | 25.9 | + 17.0 |
| 6102 | PN-A | A500 0014 | 2305.5 | 2121 | - 184.5 | 255.7 | 114.3 | -141.4 |
| 6103 | OT-A | A210 0011 | 4356.4 | - | - | 34.2 | - | - |
| 6106 | HT-A2 | A700 0010 | 5602.6 | 2980 | -2622.6 | 0 | 56.0 | + 56.0 |
| 6108 | FT-A2 | A113 0019 | - | 2136 | - | - | 10.9 | - |
| 6115 | GM-A | A041 0010 | 4745.6 | 1630 | -3115.6 | 281.8 | 48.3 | -233.5 |
| 6118 | SQQ 23 PAIR OP-BAS | A130 0097 | 182 | 332 | + 150.0 | 0 | 18.8 | + 18.8 |
| 6119 | HT-A1 | A780 0035 | 2509.1 | 1529 | - 980.1 | 7.2 | 0.0 | - 7.2 |
| 6120 | HT-A1 | A780 0035 | 2215.7 | - | - | 10.2 | - | - |
| 6121 | CTI-A2-THAI | A232 0043 | - | - | - | - | - | - |
| 6122 | CTI-A2-HEBREW | A232 0041 | - | - | - | - | - | - |
| 6123 | CTI-A2-ARABIC | A232 0042 | - | - | - | - | - | - |
| 6125 | MS-A | A800 0013 | 4436.7 | 4443 | + 6.3 | 78.3 | 231.1 | +152.8 |
| 6126 | QRTR-MSTR BASE | A772 0010 | 97.2 | 139 | + 41.8 | 3.4 | 51.1 | + 47.7 |
| 6131 | DS-A | A150 0025 | - | - | - | - | - | - |
| 6135 | ET-A-3R | A104 0010 | 1992 | 2571 | + 579.0 | 373.6 | 57.1 | -316.5 |
| 6137 | ET-A-3N | A102 0010 | 1880 | 2937 | +1057 | 293.9 | 92.0 | -291.9 |
| 6140 | CTI-A2-FRENCH | A232 0040 | - | - | - | - | - | - |
| 6142 | OSA | A221 0011 | 9216.9 | 7840 | -1376.9 | 300.2 | 609.6 | +309.4 |
| 6144 | RMA | A202 0014 | 13351.9 | 9693 | -3658.9 | 872.6 | 786.9 | - 85.7 |
| 6146 | PLRS-POS-ELECT-A | A121 0142 | 5907.2 | 4624 | -1283.2 | 18.4 | - | - |
| 6149 | CM-A | A610 0022 | 917.2 | 897 | - 20.2 | 8.2 | 5.6 | - 2.6 |
| 6161 | CTM-A | A102 0109 | 1065.7 | 1385 | + 319.3 | 14.8 | 28.9 | + 14.1 |
| 6167 | DP-A | A531 0016 | 1125.4 | 1115 | - 10.4 | 18.8 | 25.0 | + 6.2 |
| 6172 | STS-CLASS A | A130 0029 | 3016.2 | 1488 | -1528.2 | 106.0 | 133.1 | + 27.1 |
| 6178 | EW-OP-MAINT/TECH | A102 0154 | 6388.4 | 6976 | + 587.6 | 588.2 | 40.5 | -547.7 |
| 6182 | ASH-A1 | C602 2023 | 681.6 | 630 | - 51.6 | 2.8 | 7.0 | - 4.2 |
| 6183 | ASM-A1 | C602 2024 | 703.8 | 587 | - 116.8 | 3.0 | 17.1 | + 14.1 |
| 6184 | INTRO WELD | A700 0011 | 16.6 | - | - | - | - | - |
| 6193 | MK-111-OP-BAS | A130 0088 | 89.1 | - | - | 2.3 | - | - |
| 6194 | MK-114-OP-BAS | A130 0083 | 615.4 | 706 | + 90.6 | 0 | 9.4 | + 9.4 |
| 6195 | SQS-DG-OP-BAS | A130 0084 | 457.2 | 953 | + 495.8 | 0 | 11.7 | + 11.7 |
| 6196 | SQS-35V-38 OP-BAS | A130 0085 | 527.1 | 118 | - 409.1 | 0.4 | 0 | - 0.4 |
| 6197 | SQS-26-BX-OP-BAS | A130 0092 | 63.4 | - | - | 0 | - | - |
| 6198 | SQS-26-CX/AXR | A130 0086 | 431.0 | 1027 | + 596.0 | 2.4 | 14.3 | + 11.9 |
| 6206 | SH-A | A823 0012 | 900.2 | 814 | - 86.2 | 21.6 | 128.4 | +106.8 |

COMMON COURSES; ATTRITION COST DATA COMPARISON (continued)

| TOTAL ATTRITION (X 1000) | | | ACADEMIC ATTRITION COST (X 1000) | | | NONACADEMIC ATTRITION COST (X 1000) | | | COST PER GRADUATE | | |
|--------------------------------|--------|--|--|-------|--------|---|-------|--------|-------------------|-------|-------|
| FY77 | Δ | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 3936 | 3882 | - 54 |
| 7.3 | - 1.9 | | 1.5 | 0.6 | - 0.9 | 7.7 | 6.7 | - 1.0 | 4171 | 3317 | - 854 |
| 0.0 | - 5.3 | | 0 | 0 | 0 | 5.3 | 0.0 | - 5.3 | 5486 | 7951 | +2465 |
| 39.9 | + 33.0 | | 0 | 34.2 | + 34.2 | 6.9 | 5.7 | - 1.2 | 1902 | 3642 | +1740 |
| 25.9 | + 17.0 | | 2.2 | 4.6 | + 2.4 | 6.7 | 21.3 | + 14.6 | 5051 | 5155 | + 104 |
| 114.3 | -141.4 | | 177.0 | 45.7 | -131.3 | 78.7 | 68.6 | - 10.1 | 2387 | 2313 | - 74 |
| - | - | | 24.9 | - | - | 9.3 | - | - | 5036 | - | - |
| 56.0 | + 56.0 | | 0 | 0.0 | 0 | 0 | 56.0 | + 56.0 | 2209 | 2479 | + 270 |
| 10.9 | - | | - | 0.0 | - | - | 10.9 | - | - | 3322 | - |
| 48.3 | -233.5 | | 131.5 | 0.0 | -131.5 | 150.3 | 48.3 | -102.0 | 3546 | 2869 | - 677 |
| 18.8 | + 18.8 | | 0 | 12.5 | + 12.5 | 0 | 6.3 | + 6.3 | 2461 | 4197 | +1736 |
| 0.0 | - 7.2 | | 0 | 0.0 | 0 | 7.2 | 0.0 | - 7.2 | 1256 | 1197 | - 59 |
| - | - | | 0 | - | - | 10.2 | - | - | 1858 | - | - |
| - | - | | - | - | - | - | - | - | - | - | - |
| - | - | | - | - | - | - | - | - | - | - | - |
| 231.1 | +152.8 | | 78.3 | 154.8 | + 76.5 | 0 | 76.2 | + 76.2 | 1821 | 2299 | + 478 |
| 51.1 | + 47.7 | | 1.0 | 28.8 | + 27.8 | 2.4 | 22.4 | + 20.0 | 3037 | 2446 | - 591 |
| - | - | | - | - | - | - | - | - | - | - | - |
| 57.1 | -316.5 | | 124.5 | 0.0 | -124.5 | 249.1 | 57.1 | -192.0 | 2540 | 2921 | + 381 |
| 92.0 | -291.9 | | 117.6 | 46.0 | - 71.6 | 176.3 | 46.0 | -130.3 | 2540 | 2966 | + 426 |
| - | - | | - | - | - | - | - | - | - | - | - |
| 609.6 | +309.4 | | 112.6 | 268.7 | +156.1 | 187.6 | 340.9 | +153.3 | 4021 | 4664 | + 643 |
| 786.9 | - 85.7 | | 387.8 | 424.0 | + 36.2 | 484.8 | 363.0 | -121.8 | 4555 | 2900 | -1655 |
| - | - | | 9.8 | - | - | 8.6 | - | - | 5747 | - | - |
| 5.6 | - 2.6 | | 0 | 0 | 0 | 8.2 | 5.6 | - 2.6 | 5558 | 4850 | - 708 |
| 28.9 | + 14.1 | | 14.8 | 11.6 | - 3.2 | 0 | 17.3 | + 17.3 | 4037 | 8097 | +4060 |
| 25.0 | + 6.2 | | 18.8 | 19.1 | + 0.3 | 0 | 5.9 | + 5.9 | 2501 | 2693 | + 192 |
| 133.1 | + 27.1 | | 63.6 | 80.4 | + 16.8 | 42.4 | 52.7 | + 10.3 | 4274 | 3235 | -1039 |
| 40.5 | -547.7 | | 484.4 | 17.3 | -467.1 | 103.8 | 23.2 | - 80.6 | 17503 | 16376 | -1127 |
| 7.0 | - 4.2 | | 0.9 | 0 | - 0.9 | 1.9 | 7.0 | + 5.1 | 3872 | 3042 | - 830 |
| 17.1 | + 14.1 | | 1.3 | 3.4 | + 2.1 | 1.7 | 13.6 | + 11.9 | 4069 | 3432 | - 637 |
| - | - | | - | - | - | - | - | - | 1187 | - | - |
| - | - | | 2.3 | - | - | 0 | - | - | 781 | - | - |
| 9.4 | + 9.4 | | 0 | 0 | 0 | 0 | 9.4 | + 9.4 | 1584 | 955 | - 629 |
| 11.7 | + 11.7 | | 0 | 0 | 0 | 0 | 11.7 | + 11.7 | 1252 | 2085 | + 833 |
| 0 | - 0.4 | | 0.4 | 0 | - 0.4 | 0 | 0 | 0 | 824 | 1556 | + 732 |
| - | - | | 0 | - | - | 0 | - | - | 1219 | - | - |
| 14.3 | + 11.9 | | 0 | 0 | 0 | 2.4 | 14.3 | + 11.9 | 1418 | 2078 | + 660 |
| 128.4 | +106.8 | | 16.8 | 107.7 | + 90.9 | 4.8 | 20.7 | + 15.9 | 1127 | 1461 | + 334 |

TABLE D-1. FY 76 VS. FY 77 COMMON COURSES; ATTRITION C

| CDP | SHORT TITLE | CIN | TOTAL COST (X 1000) | | | TOTAL ATTRITION COST (X 1000) | | | FY76 |
|------|-------------------|-----------|------------------------|------|---------|-------------------------------------|-------|---------|------|
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | |
| 6209 | SH-A | A823 0012 | 611.4 | 523 | - 88.4 | 0 | 11.1 | + 11.1 | 0 |
| 6239 | AVA-AT-A1 | C100 2013 | 7236 | 8257 | +1021 | 281.6 | 774.6 | +493.0 | 153 |
| 6240 | AVA-AQ-A1 | C100 2013 | 1872 | 1993 | + 121 | 72.8 | 206.2 | +133.4 | 30 |
| 6241 | AVA-AX-A1 | C100 2013 | 3036 | 1971 | - 1065 | 126 | 184.2 | + 58.2 | 55 |
| 6242 | AVA-TD-A1 | C100 2013 | 2594 | 2311 | - 283 | 101 | 158.9 | + 57.9 | 50 |
| 6244 | AFTA-AT-A1 | C100 2010 | 4857 | 5550 | + 693 | 254 | 278.3 | + 24.3 | 127 |
| 6245 | AFTA-AQ-A1 | C100 2010 | 2311 | 1120 | -1191 | 120.9 | 45.9 | - 75.0 | 80 |
| 6246 | AFTA-AX-A1 | C100 2010 | 2226 | 1404 | - 822 | 128.1 | 49.5 | - 78.6 | 69 |
| 6260 | BT-A | A651 0010 | 6191.8 | 5128 | -1063.8 | 264 | 190.9 | - 73.1 | 0 |
| 6261 | EN-A | A652 0018 | 1596.1 | 1357 | - 239.1 | 76.8 | 11.8 | - 65.0 | 0 |
| 6262 | MM-A | A651 0015 | 2967.7 | 9578 | +6610.3 | 126.5 | 534.8 | +408.3 | 0 |
| 6263 | ET-A1-ETN | A100 0012 | 4700 | 4263 | - 437.0 | 587.7 | 396.8 | -190.9 | 326 |
| 6264 | ET-A1-CTM | A100 0012 | 1141 | 663 | - 478.0 | 142.7 | 74.0 | - 68.7 | 118 |
| 6265 | ET-A1-ETR | A100 0012 | 588 | 4323 | +3735.0 | 736 | 375.1 | -360.9 | 368 |
| 6266 | ET-A2-ETN | A100 0014 | 2574 | 2946 | + 372.0 | 321.9 | 114.7 | -207.2 | 80 |
| 6267 | ET-A2-CTN | A100 0014 | 716 | 588 | - 128.0 | 89.6 | 48.7 | - 40.9 | 38 |
| 6268 | ET-A2-ETR | A100 0014 | 3447 | 2670 | - 777.0 | 431 | 99.3 | -331.7 | 215 |
| 6278 | AC-A1 | C222 2010 | 4781.8 | 3755 | -1026.8 | 448 | 354.5 | - 93.5 | 336 |
| 6286 | BU-A | A710 0010 | 838.4 | 780 | - 58.4 | 4.4 | 10.6 | + 6.2 | 2 |
| 6287 | EA-A | A412 0010 | 121.7 | 91 | - 30.7 | 0 | 0 | 0 | 0 |
| 6289 | CE-A | A721 0018 | 238.1 | 730 | + 491.9 | 8.3 | 9.6 | + 1.3 | 4 |
| 6290 | UT-A | A720 0012 | 464.8 | 494 | + 29.2 | 10.7 | 6.1 | - 4.6 | 0 |
| 6291 | CM-A | A610 0022 | 469.0 | 955 | + 486.0 | 3 | 7.0 | + 4.0 | 0 |
| 6292 | EO-A | A730 0010 | 1025.3 | 1099 | + 73.7 | 11 | 2.2 | - 8.8 | 3 |
| 6299 | EW-OP-TECH | A102 0155 | 958.1 | - | - | 95 | - | - | 12 |
| 6300 | PC-A | A515 0018 | - | - | - | - | - | - | - |
| 6301 | CTR-A | A231 0044 | 4624.5 | 4824 | + 199.5 | 1492.2 | 837.2 | - 655.0 | 1208 |
| 6302 | CTT-A-PREP | A231 0023 | 3389 | 4291 | + 902.0 | 403.7 | 767.7 | - 364.0 | 336 |
| 6319 | CTT/ICR/NON MORSE | A231 0047 | 163.1 | 361 | + 197.9 | 0 | 0 | 0 | 0 |
| 6320 | CTT/SPE/NON MORSE | A231 0046 | 406.5 | 1088 | + 681.5 | 0 | 20.9 | + 20.9 | 0 |
| 6321 | CTI-A2-RUSSIAN | A232 0021 | - | - | - | - | - | - | - |
| 6322 | CTI-A2-CHI-MAN | A232 0022 | - | - | - | - | - | - | - |
| 6323 | CTI-A2-VIETNAM | A232 0023 | - | - | - | - | - | - | - |
| 6326 | CTI-A2-POLISH | A232 0026 | - | - | - | - | - | - | - |
| 6327 | CTI-A2-BULGAR | A232 0027 | - | - | - | - | - | - | - |
| 6328 | CTI-A2-KOREAN | A232 0028 | - | - | - | - | - | - | - |
| 6329 | CTI-A2-COMMON BL | A232 0029 | - | - | - | - | - | - | - |
| 6330 | CTI-A2-GERMAN | A232 0030 | - | - | - | - | - | - | - |
| 6331 | CTI-A2-SPANISH | A232 0031 | - | - | - | - | - | - | - |
| 6332 | CTI-A2-ROM | A232 0032 | - | - | - | - | - | - | - |

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TABLE D-1. FY 76 VS. FY 77 COMMON COURSES; ATTRITION COST

| CDP | SHORT TITLE | CIN | TOTAL COST (X 1000) | | | TOTAL ATTRITION COST (X 1000) | | | AC ATT COST |
|------|------------------|-----------|------------------------|------|---------|-------------------------------------|-------|-------|-------------------|
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | |
| 6333 | CTI-A2-SERBO-CRO | A232 0033 | - | - | - | - | - | - | - |
| 6337 | UWFT-CLASS A | A130 0138 | - | 570 | - | - | 130.4 | - | - |
| 6339 | HTA-PH2 | A700 0010 | 555.7 | 2274 | +1718.3 | 2.5 | 29.9 | +27.4 | 0 |
| 6340 | HT MAINT | A790 0013 | 3 | - | - | 0 | - | - | 0 |
| 6341 | OT-A | A210 0011 | - | 1818 | - | - | 321 | - | - |
| 6343 | SCAT MODS 3-6 | A101 0134 | - | 92 | - | - | 1.9 | - | - |
| 6344 | SCAT MOD 6 | A100 0053 | - | 86 | - | - | 13.1 | - | - |
| 6345 | SCAT-MOD-5 | A100 0052 | - | 77 | - | - | 0 | - | - |
| 6346 | SCAT-MOD-4 | A100 0051 | - | 84 | - | - | 23.2 | - | - |
| 6347 | SCAT-MOD-3 | A100 0050 | - | 116 | - | - | 6.7 | - | - |
| 6376 | FTG-A2 | A113 0019 | - | 1294 | - | - | 14.3 | - | - |
| 6377 | FTG-A1 | A113 0010 | - | 2763 | - | - | 168.7 | - | - |
| 6378 | GMT ASROC A | A041 0010 | - | 311 | - | - | 50.7 | - | - |
| 6380 | RM A SEA | A202 0026 | - | 2490 | - | - | 15.7 | - | - |
| 6381 | RM A SHORE | A202 0027 | - | 2149 | - | - | 10.8 | - | - |
| 6400 | GMG A | A041 0010 | - | 3508 | - | - | 121.2 | - | - |
| 6401 | BQQ-2 BAS OP | A130 0189 | - | 227 | - | - | 4.0 | - | - |
| 6402 | OA-1283 BAS OP | A130 0188 | - | 605 | - | - | 1.3 | - | - |
| 6418 | DIVERS SECOND | A433 0022 | - | - | - | - | - | - | - |
| 6419 | SCUBA DIVER | A433 0023 | - | - | - | - | - | - | - |
| 6444 | I IN STS "A" | A130 0204 | - | - | - | - | - | - | - |
| 6451 | EW CM TECH | A102 0214 | - | 1007 | - | - | 391.0 | - | - |
| 6452 | RES EM CM TECH | A102 0214 | - | - | - | - | - | - | - |
| 6457 | ET(SU) EW TECH | A102 0224 | - | - | - | - | - | - | - |
| 6473 | AG A1 | C420 2010 | - | - | - | - | - | - | - |
| 6476 | EW FUND/PM TECH | A102 0209 | - | 1690 | - | - | 427.4 | - | - |
| 6478 | CTM EW TECH | A102 0234 | - | - | - | - | - | - | - |
| 6501 | ADJ-A1 | C601 2010 | 549.8 | 4492 | 3942.2 | 199.4 | 178.5 | -20.9 | 113.9 |
| 6502 | ADR-A1 | C601 2012 | 780.5 | - | - | 6.8 | - | - | 3.4 |
| 6506 | AO-A1 | C646 2010 | 5010.6 | 4206 | - 804.6 | 119.1 | 128.8 | + 9.7 | 17.0 |
| 6512 | ABF-A1 | C821 2010 | 996.8 | 802 | - 194.8 | 15.8 | 10.3 | - 5.5 | 0 |
| 6513 | ABE-A1 | C680 2012 | 1169.5 | 1100 | - 69.5 | 21.2 | 41.2 | +20.0 | 10.6 |
| 6515 | AE-A1 | C602 2012 | 6694.1 | 5424 | -1270.1 | 190.5 | 136.6 | -53.9 | 76.2 |
| 6516 | AME-A1 | C602 2015 | 2097.8 | 2230 | + 132.2 | 76.6 | 57.7 | -18.9 | 15.3 |
| 6517 | AMH-A1 | C602 2017 | 4043.9 | 2865 | -1178.9 | 145.5 | 84.9 | -60.6 | 48.5 |
| 6518 | AMS-A1 | C603 2010 | 4363.5 | 5226 | + 862.5 | 112 | 187.1 | +75.1 | 18.7 |
| 6519 | PR-BASIC | C602 2010 | 2010.4 | 2489 | + 478.6 | 81.4 | 76.3 | - 5.1 | 27.1 |
| 6520 | AG-A1 | C420 2010 | 1980.2 | 2079 | + 98.8 | 50 | 70.8 | +20.8 | 25.0 |
| 6521 | TD-A1 | C191 2010 | 805.6 | 1096 | + 290.4 | 12 | 12.8 | + 0.8 | 6.0 |
| 6522 | AK-A | C551 2010 | 621.7 | - | - | 3 | - | - | 1.3 |

77 COMMON COURSES; ATTRITION COST DATA COMPARISON (continued)

| TOTAL ATTRITION COST (X 1000) | | ACADEMIC ATTRITION COST (X 1000) | | | NONACADEMIC ATTRITION COST (X 1000) | | | COST PER GRADUATE | | |
|-------------------------------------|-------|--|-------|-------|---|-------|-------|-------------------|-------|-------|
| FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ |
| - | - | - | - | - | - | - | - | - | - | - |
| 130.4 | - | - | 86.9 | - | - | 43.5 | - | - | 5939 | - |
| 29.9 | +27.4 | 0 | 0 | 0 | 2.5 | 29.9 | +27.4 | 5097 | 2031 | -3066 |
| - | - | 0 | - | - | 0 | - | - | 1019 | - | - |
| 321 | - | - | 233.5 | - | - | 87.5 | - | - | 23304 | - |
| 1.9 | - | - | 0 | - | - | 1.9 | - | - | 2196 | - |
| 13.1 | - | - | 6.6 | - | - | 6.5 | - | - | 2200 | - |
| 0 | - | - | 0 | - | - | 0 | - | - | 2340 | - |
| 23.2 | - | - | 15.5 | - | - | 7.7 | - | - | 2145 | - |
| 6.7 | - | - | 0 | - | - | 6.7 | - | - | 2363 | - |
| 14.3 | - | - | 3.8 | - | - | 10.5 | - | - | 3545 | - |
| 168.7 | - | - | 101.8 | - | - | 66.9 | - | - | 2763 | - |
| 50.7 | - | - | 0 | - | - | 50.7 | - | - | 3495 | - |
| 15.7 | - | - | 0 | - | - | 15.7 | - | - | 1431 | - |
| 10.8 | - | - | 0 | - | - | 10.8 | - | - | 1225 | - |
| 121.2 | - | - | 0 | - | - | 121.2 | - | - | 3619 | - |
| 4.0 | - | - | 4.0 | - | - | 0 | - | - | 2048 | - |
| 1.3 | - | - | 0 | - | - | 1.3 | - | - | 1763 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 391.0 | - | - | 317.7 | - | - | 73.3 | - | - | 10708 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 427.4 | - | - | 256.4 | - | - | 171.0 | - | - | 46954 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 178.5 | -20.9 | 113.9 | 127.7 | +13.8 | 85.5 | 50.7 | -34.8 | 1767 | 1772 | + 5 |
| - | - | 3.4 | - | - | 3.4 | - | - | 2410 | - | - |
| 128.8 | + 9.7 | 17.0 | 42.9 | +25.9 | 102.1 | 85.9 | -16.2 | 3037 | 2796 | -241 |
| 10.3 | - 5.5 | 0 | 3.4 | + 3.4 | 15.8 | 6.9 | - 8.9 | 1706 | 2089 | +383 |
| 41.2 | +20.0 | 10.6 | 34.9 | +24.3 | 10.6 | 6.3 | - 4.3 | 3241 | 3385 | +144 |
| 136.6 | -53.9 | 76.2 | 54.0 | -22.2 | 114.3 | 82.6 | -31.7 | 3532 | 3448 | - 84 |
| 57.7 | -18.9 | 15.3 | 23.4 | + 8.1 | 61.3 | 34.2 | -27.1 | 3550 | 3785 | +235 |
| 84.9 | -60.6 | 48.5 | 21.6 | -26.9 | 97.0 | 63.3 | -33.7 | 2653 | 2050 | -603 |
| 187.1 | +75.1 | 18.7 | 37.4 | +18.7 | 93.3 | 149.7 | +66.4 | 3158 | 2662 | -496 |
| 76.3 | - 5.1 | 27.1 | 12.7 | -14.4 | 54.3 | 63.5 | + 9.2 | 5153 | 4397 | -756 |
| 70.8 | +20.8 | 25.0 | 31.4 | + 6.4 | 25.0 | 39.4 | +14.4 | 6691 | 6379 | -312 |
| 12.8 | + 0.8 | 6.0 | 0 | - 6.0 | 6.0 | 12.8 | + 6.8 | 2051 | 2531 | +480 |
| - | - | 1.3 | - | - | 1.7 | - | - | 2656 | - | - |

TABLE D-1. FY 76 VS. FY 77 COMMON COURSES; ATTRITION

| CDP | SHORT TITLE | CIN | TOTAL COST (X 1000) | | | TOTAL ATTRITION COST (X 1000) | | | FY76 |
|------|-----------------|-----------|------------------------|------|---------|-------------------------------------|-------|-------|-------|
| | | | FY76 | FY77 | Δ | FY76 | FY77 | Δ | |
| 6523 | PH-LEVEL 1 | C400 2010 | 1489.5 | - | - | 216.7 | - | - | 154.8 |
| 6527 | ABH-A1 | C822 2010 | 1163.0 | 792 | - 371.0 | 0 | 6.3 | +6.3 | 0 |
| 6528 | AZ-A1 | C516 2010 | 966.0 | 1059 | + 93.0 | 32 | 23.4 | - 8.6 | 24.0 |
| 6529 | IS-A | A242 0010 | 802.3 | 607 | - 195.3 | 18.8 | 15.2 | - 3.6 | 15.0 |
| 6530 | ASE-A1 | C602 2019 | 664.2 | 588 | - 76.2 | 2.4 | 6.4 | - 4.0 | 0.6 |
| 6536 | TM-AS-TORP-TECH | A123 0127 | 96 | 241 | + 145.0 | 0 | 18.3 | +18.3 | 0 |
| 6537 | AW-A1 | C210 2010 | 3102.1 | 1954 | -1148.1 | 160.2 | 148.6 | -11.6 | 80.1 |

DN COURSES; ATTRITION COST DATA COMPARISON (continued)

| N 00) | ACADEMIC ATTRITION COST (X 1000) | | | NONACADEMIC ATTRITION COST (X 1000) | | | COST PER GRADUATE | | |
|----------|--|-------|------|---|------|------|-------------------|------|-------|
| | Δ | FY76 | FY77 | Δ | FY76 | FY77 | Δ | FY76 | FY77 |
| - | | 154.8 | - | - | 61.9 | - | - | 4627 | - |
| +6.3 | | 0 | 0 | 0 | 0 | 6.3 | + 6.3 | 1836 | 1951 |
| - 8.6 | | 24.0 | 14.2 | - 9.8 | 8.0 | 9.2 | + 1.2 | 2236 | 1946 |
| - 3.6 | | 15.0 | 10.9 | - 4.1 | 3.8 | 4.3 | + 0.5 | 3303 | 2605 |
| - 4.0 | | 0.6 | 0 | - 0.6 | 1.8 | 6.4 | + 4.6 | 3669 | 3064 |
| +18.3 | | 0 | 0 | 0 | 0 | 18.3 | +18.3 | 1902 | 3305 |
| -11.6 | | 80.1 | 99.6 | +19.5 | 80.1 | 49.0 | -31.1 | 4375 | 3869 |
| | | | | | | | | | - 506 |

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